JVC

GR-DV3000A/EA/ED/EG/EK/SH

No. 86666

JVC

VICTOR COMPANY OF JAPAN, LIMITED
VIDEO DIVISION

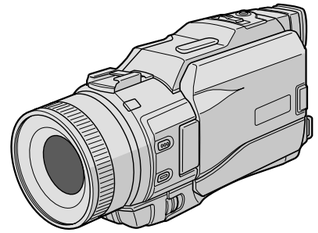
S40894

JVC

SERVICE MANUAL

DIGITAL VIDEO CAMERA

GR-DV3000A/EA/ED/EG/EK/SH



Mini DV PAL

DSC DIGITAL STILL CAMERA

SPECIFICATIONS *(The specifications shown pertain specifically to the model GR-DV3000EG/EK)*

Camcorder

General

Power supply	:	DC 6.3 V ⎓ (Using AC Power Adapter/Charger) DC 7.2 V ⎓ (Using battery pack)
Power consumption		
LCD monitor off, viewfinder on	:	Approx. 4.3 W
LCD monitor on, viewfinder off	:	Approx. 5.4 W
Dimensions (W x H x D)	:	76 mm x 90 mm x 194 mm (with the LCD monitor closed and the viewfinder pushed back in, without the lens hood)
Weight	:	Approx. 660 g (without cassette, memory card and battery) Approx. 740 g (incl. cassette, memory card and battery)
Operating temperature	:	0°C to 40°C
Operating humidity	:	35% to 80%
Storage temperature	:	–20°C to 50°C
Pickup	:	1/3.6" CCD
Lens	:	F 1.2, f = 4.5 mm to 45 mm, 10:1 power zoom lens
Filter diameter	:	ø52 mm
LCD monitor	:	3.5" diagonally measured, LCD panel/TFT active matrix system
Viewfinder	:	Electronic viewfinder with 0.44" colour LCD
Speaker	:	Monaural

Digital Video Camera

Format	:	DV format (SD mode)
Signal format	:	PAL standard
Recording/Playback format	:	Video: Digital component recording Audio: PCM digital recording, 32 kHz 4-channel (12-bit), 48 kHz 2-channel (16-bit)
Cassette	:	Mini DV cassette
Tape speed	:	SP: 18.8 mm/s LP: 12.5 mm/s
Maximum recording time (using 80 min. cassette)	:	SP: 80 min. LP: 120 min.

Digital Still Camera Function

Storage media	:	SD Memory Card/MultiMediaCard
Compression system	:	Still image : JPEG (compatible) Moving image : MPEG4 (compatible)
File size	:	Still image : 4 modes (1600 x 1200 pixels, 1280 x 960 pixels, 1024 x 768 pixels, 640 x 480 pixels) Moving image : 2 modes (240 x 176 pixels, 160 x 120 pixels)
Picture quality	:	2 modes (FINE/STANDARD)
Approximate number of storable images (with the provided memory card [8 MB])		
FINE	:	32 (640 x 480 pixels), 14 (1024 x 768 pixels), 9 (1280 x 960 pixels), 6 (1600 x 1200 pixels)
STANDARD	:	110 (640 x 480 pixels), 46 (1024 x 768 pixels), 30 (1280 x 960 pixels), 20 (1600 x 1200 pixels)

For other memory cards, ☞ pg. 17.

Connectors

AV		
Video output	:	1 V (p-p), 75 Ω, analogue
Video input	:	0.5 V (p-p) – 2.0 V (p-p), 75 Ω, analogue
Audio output	:	300 mV (rms), 1 kΩ, analogue, stereo
Audio input	:	300 mV (rms), 50 kΩ, analogue, stereo
DV		
Input/output	:	4-pin, IEEE 1394 compliant
PHONE		
Headphone output	:	ø3.5 mm, stereo
PRINTER	:	For an optional video printer equipped with a PRINT DATA connector

AC Power Adapter/Charger AA-V40EG or AA-V40EK

Power requirement	:	AC 110 V to 240 V ∿, 50 Hz/60 Hz
Power consumption	:	23 W
Output		
Charge	:	DC 7.2 V ⎓ , 1.2 A
VTR	:	DC 6.3 V ⎓ , 1.8 A
Dimensions (W x H x D)	:	68 mm x 38 mm x 110 mm
Weight		
AA-V40EG	:	Approx. 260 g
AA-V40EK	:	Approx. 340 g

Jack Box CU-V504U

General

Dimensions (W x H x D)	:	37.5 mm x 18.5 mm x 55 mm
Weight	:	Approx. 30 g

Connectors

USB	:	TYPE B
S-VIDEO		
Output	:	Y: 1 V (p-p), 75 Ω, analogue C: 0.29 V (p-p), 75 Ω, analogue
Input	:	Y: 0.8 V (p-p) – 1.2 V (p-p), 75 Ω, analogue C: 0.2 V (p-p) – 0.4 V (p-p), 75 Ω, analogue
EDIT	:	ø3.5 mm, 2-pole

Specifications shown are for SP mode unless otherwise indicated. E & O.E. Design and specifications subject to change without notice.

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The following table lists the differing points between Models GR-DV3000EG, GR-DV3000EK, GR-DV3000EA, GR-DV3000A, GR-DV3000SH and GR-DV3000ED in this serise.

	GR-DV3000EG	GR-DV3000EK	GR-DV3000EA	GR-DV3000A	GR-DV3000SH	GR-DV3000ED
AC ADAPTER CHARGER	AA-V40EG	AA-V40EK	AA-V40EA	AA-V40A	AA-V40SH	AA-V40ED
PERI-RCA ADAPTER	USED	USED	NOT USED	NOT USED	NOT USED	NOT USED
CONVERSION PLUG	NOT USED	NOT USED	NOT USED	USED	NOT USED	NOT USED

Important Safety Precautions

Prior to shipment from the factory, JVC products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

● Precautions during Servicing

1. Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.

2. Parts identified by the ⚠ symbol and shaded ( ) parts are critical for safety.
   Replace only with specified part numbers.
   Note: Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

3. Fuse replacement caution notice.
   Caution for continued protection against fire hazard.
   Replace only with same type and rated fuse(s) as specified.

4. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads

5. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulation Tape 3) Spacers 5) Barrier
   2) PVC tubing 4) Insulation sheets for transistors

6. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.

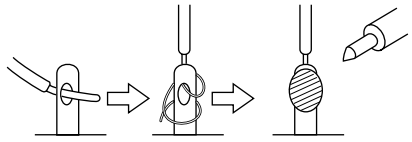


Fig.1

7. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)

8. Check that replaced wires do not contact sharp edged or pointed parts.

9. When a power cord has been replaced, check that 10-15 kg of force in any direction will not loosen it.

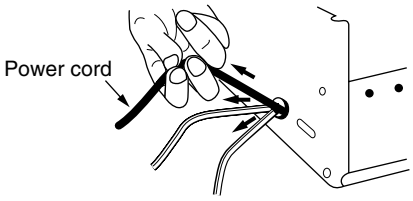


Fig.2

10. Also check areas surrounding repaired locations.

11. Products using cathode ray tubes (CRTs)
    In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission.
    Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the specified parts. Under no circumstances attempt to modify these circuits.
    Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

12. Crimp type wire connector
    In such cases as when replacing the power transformer in sets where the connections between the power cord and power transformer primary lead wires are performed using crimp type connectors, if replacing the connectors is unavoidable, in order to prevent safety hazards, perform carefully and precisely according to the following steps.

    1) Connector part number : E03830-001
    2) Required tool : Connector crimping tool of the proper type which will not damage insulated parts.
    3) Replacement procedure
    (1) Remove the old connector by cutting the wires at a point close to the connector.
    Important : Do not reuse a connector (discard it).

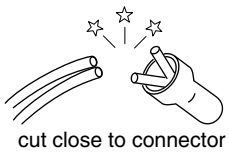


Fig.3

(2) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.

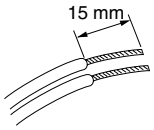


Fig.4

(3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.

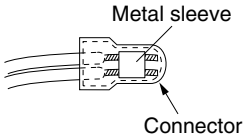


Fig.5

(4) As shown in Fig.6, use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.

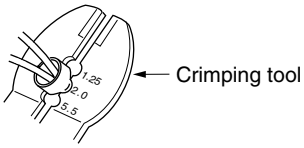


Fig.6

(5) Check the four points noted in Fig.7.

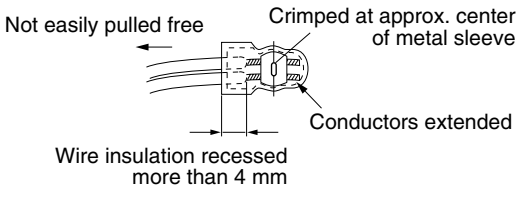

Not easily pulled free
Crimped at approx. center of metal sleeve
Conductors extended
Wire insulation recessed more than 4 mm

Fig.7

● Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions, Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

1. Insulation resistance test

Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

2. Dielectric strength test

Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

3. Clearance distance

When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table 1 below.

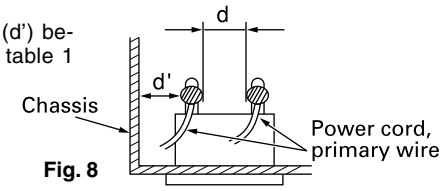


Fig. 8

4. Leakage current test

Confirm specified or lower leakage current between earth ground/power cord plug prongs and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).

Measuring Method : (Power ON)

Insert load Z between earth ground/power cord plug prongs and externally exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See figure 9 and following table 2.

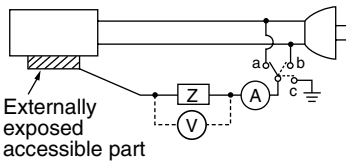


Fig. 9

5. Grounding (Class 1 model only)

Confirm specified or lower grounding impedance between earth pin in AC inlet and externally exposed accessible parts (Video in, Video out, Audio in, Audio out or Fixing screw etc.).

Measuring Method:

Connect milli ohm meter between earth pin in AC inlet and exposed accessible parts. See figure 10 and grounding specifications.

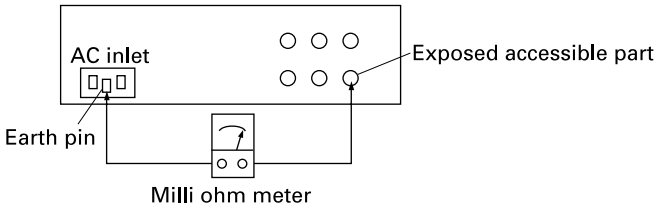


Fig. 10

Grounding Specifications

Region	Grounding Impedance (Z)
USA & Canada	Z ≦ 0.1 ohm
Europe & Australia	Z ≦ 0.5 ohm

AC Line Voltage	Region	Insulation Resistance (R)	Dielectric Strength	Clearance Distance (d), (d')
100 V	Japan	R ≧ 1 MΩ/500 V DC	AC 1 kV 1 minute	d, d' ≧ 3 mm
100 to 240 V			AC 1.5 kV 1 miute	d, d' ≧ 4 mm
110 to 130 V	USA & Canada	1 MΩ ≦ R ≦ 12 MΩ/500 V DC	AC 1 kV 1 minute	d, d' ≧ 3.2 mm
110 to 130 V 200 to 240 V	Europe & Australia	R ≧ 10 MΩ/500 V DC	AC 3 kV 1 minute (Class Ⅱ) AC 1.5 kV 1 minute (Class Ⅰ)	d ≧ 4 mm d' ≧ 8 mm (Power cord) d' ≧ 6 mm (Primary wire)

Table 1 Specifications for each region

AC Line Voltage	Region	Load Z	Leakage Current (i)	a, b, c
100 V	Japan	1 kΩ	i ≦ 1 mA rms	Exposed accessible parts
110 to 130 V	USA & Canada	0.15 μF, 1.5 kΩ	i ≦ 0.5 mA rms	Exposed accessible parts
110 to 130 V 220 to 240 V	Europe & Australia	2 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Antenna earth terminals
		50 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Other terminals

Table 2 Leakage current specifications for each region

Note: These tables are unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

SECTION 1
DISASSEMBLY

1.1 BEFORE ASSEMBLY AND DISASSEMBLY

1.1.1 Precautions

1. Be sure to remove the power supply unit prior to mounting and soldering of parts.
2. When removing a component part that needs to disconnect the connector and to remove the screw for removing itself, first disconnect the connecting wire from the connector and then remove the screw beforehand.
3. When connecting and disconnecting the connectors, be careful not to damage the wire.
4. Carefully remove and handle the part to which some spacer or shield is attached for reinforcement or insulation.
5. When replacing chip parts (especially IC parts), desolder completely first (to prevent peeling of the pattern).
6. Tighten screws properly during the procedures.
   Unless specified otherwise, tighten screws at a torque of 0.078N•m(0.8kgf•cm).

1.1.2 Assembly and disassembly

STEP No.	PART	Fig.No.	POINT	NOTE
①	ZOOM OPE UNIT	Fig.1-3-1	3(S①),(L①a),5(L①b),CN①a	-
②	FRONT COVER ASSY	Fig.1-3-2a	CN②a,CN②b,2(S②a),(S②b),(S②c),(S②d),2(S②e),CN②c	NOTE②a NOTE②b NOTE②c NOTE②d

(1) (2) (3) (4) (5)

(1) Indicate the disassembly steps. When assembling, perform in the reverse order of these steps. This number corresponds to the number in the disassembly diagram.

(2) Indicates the name of disassembly/assembly parts.

(3) Indicates the number in the disassembly diagram.

(4) Indicates parts and points such as screws, washers, springs which must be removed during disassembly/assembly.

Symbol	Name, Point
S	Screw
L	Lock, Pawl, Hook
SD	Soldering
☆(Others)	Connector, Cover, Bracket, etc.

(Example)
- 2 (S①) : Remove the two screws (S①) for removing the part 1.
- CN ①a : Disconnect the connector ①a.
- SD① : Unsolder at the point SD①.

(5) Precautions on disassembly/assembly.

1.1.3 Destination of connectors

Note: *Three kinds of double-arrows in connection tables respectively show kinds of connector/wires.*
↔ : Wire
⇔ : Flat wire
⬌ : Board to Board connector

[Example]

Note: *Remove the parts marked in .*

CONN. No.	CONNECTOR					Pin No.
①a	JUNCTION	CN1102	⇔	ZOOM OPE	–	8

1.1.4 Disconnection of Connectors (Wires)

Connector
Pull both ends of the connector in the arrow direction, remove the lock and disconnect the flat wire.

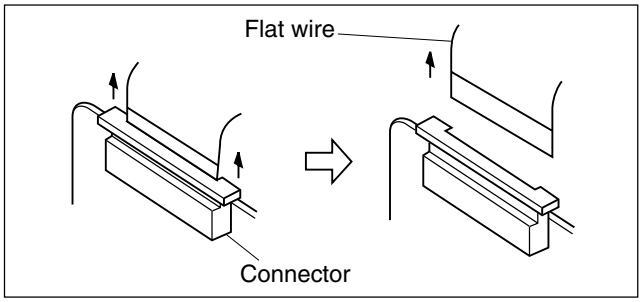


Fig. 1-1-1 Connector 1

Extend the locks in the direction of the arrow for unlocking and then pull out the wire. After removing the wire, immediately restore the locks to their original positions because the locks are apt to come off the connector.

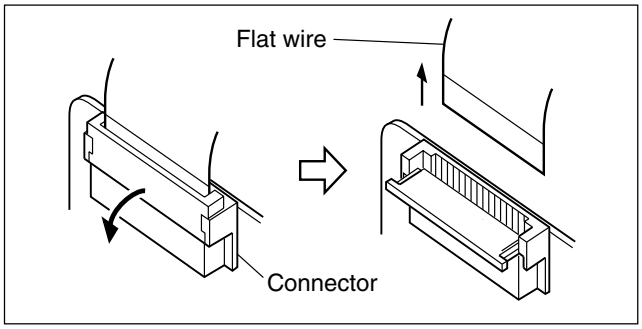


Fig. 1-1-2 Connector 2

B-B connector
Pull the board by both the sides in the direction of the arrow for disconnecting the B-B connector.

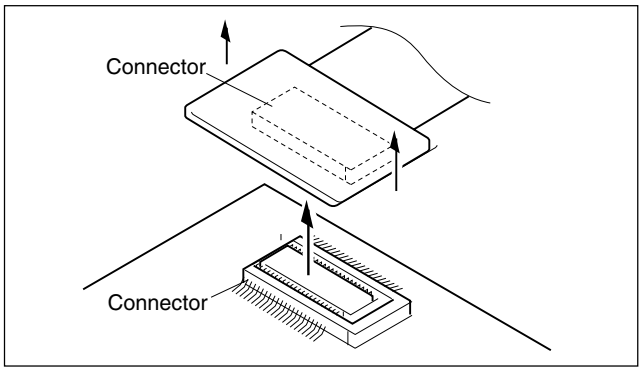


Fig. 1-1-3 Connector 3

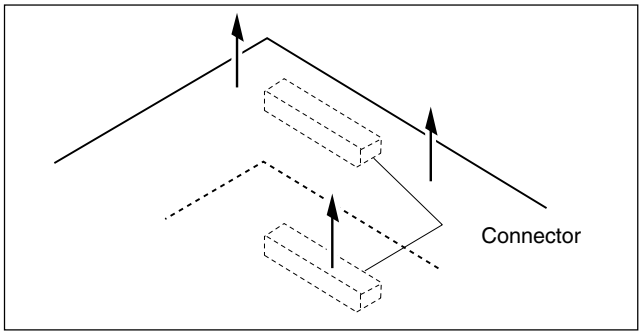


Fig. 1-1-4 Connector 4

1.2 JIGS AND TOOLS REQUIRED FOR DISASSEMBLY, ASSEMBLY AND ADJUSTMENT

1.2.1 Tools required for adjustments

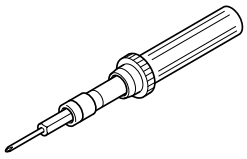
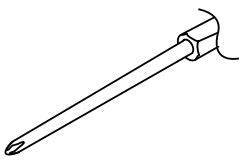
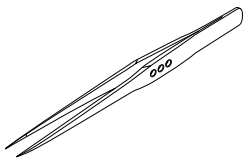
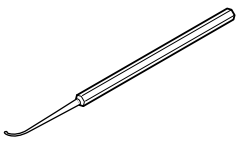
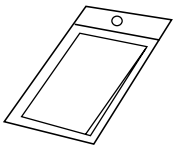
1 Torque driver YTU94088	2 Bit YTU94088-003
	
3 Tweezers P-895	4 Chip IC replacement jig PTS40844-2
	
5 Cleaning cloth KSMM-01	
	

Table 1-2-1

1. **Torque driver**
   Be sure to use to fastening the mechanism and exterior parts because those parts must strictly be controlled for tightening torque.
2. **Bit**
   This bit is slightly longer than those set in conventional torque drivers.
3. **Tweezers**
   To be used for removing and installing parts and wires.
4. **Chip IC replacement jig**
   To be used for adjustment of the camera system.
5. **Cleaning cloth**
   Recommended cleaning cloth to wipe down the video heads, mechanism (tape transport system), optical lens surface.

1.3 DISASSEMBLY/ASSEMBLY OF CABINET PARTS AND BOARD ASSEMBLY

1.3.1 Disassembly flow chart

This flowchart indicates the disassembly step for the cabinet parts and board assembly in order to gain access to item(s) to be serviced. When reassembling, perform the step(s) in reverse order.

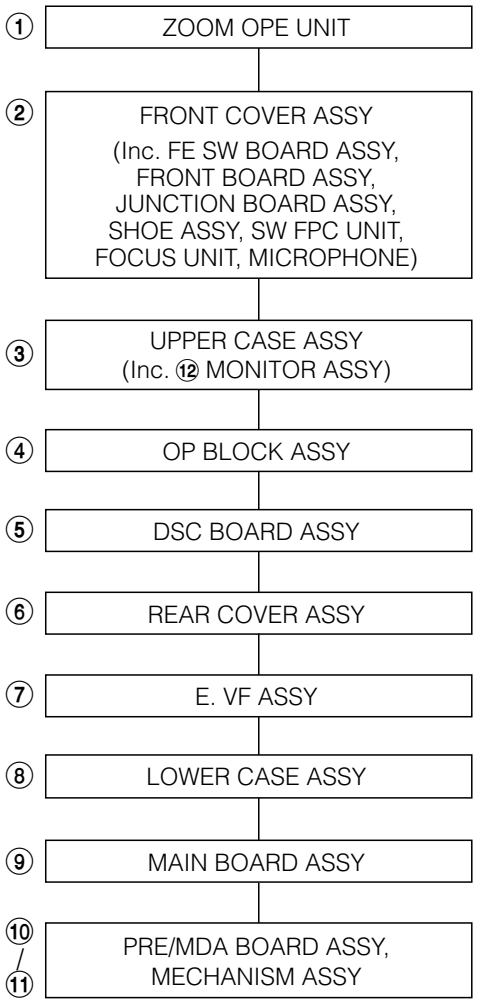

① ZOOM OPE UNIT
② FRONT COVER ASSY
(Inc. FE SW BOARD ASSY, FRONT BOARD ASSY, JUNCTION BOARD ASSY, SHOE ASSY, SW FPC UNIT, FOCUS UNIT, MICROPHONE)
③ UPPER CASE ASSY
(Inc. ⑫ MONITOR ASSY)
④ OP BLOCK ASSY
⑤ DSC BOARD ASSY
⑥ REAR COVER ASSY
⑦ E. VF ASSY
⑧ LOWER CASE ASSY
⑨ MAIN BOARD ASSY
⑩ ⑪ PRE/MDA BOARD ASSY, MECHANISM ASSY

Table 1-3-1

1.3.2 Disassembly method

STEP No.	PART	Fig.No.	POINT	NOTE
①	ZOOM OPE UNIT	Fig.1-3-1	3(S①),(L①a),5(L①b),CN①a	-
②	FRONT COVER ASSY	Fig.1-3-2a	CN②a,CN②b,2(S②a),(S②b),(S②c),(S②d),2(S②e),CN②c	NOTE②a NOTE②b NOTE②c NOTE②d
	FRONT BOARD ASSY	Fig1-3-2b	(S②f),CN②d,CN②e	NOTE②e
	FE SW BOARD ASSY		2(S②f),CN②h	NOTE②f
	JUNCTION BOARD ASSY		(S②g),2(L②),2(S②f),CN②f,CN②g	
	SHOE ASSY	Fig1-3-2c	(S②h)	
	SW FPC UNIT		(S②f),COVER(MENU),(S②f)	
	FOUCUS UNIT		2(S②h),SPACER	
	MICROPHONE		2(S②j)	
③	UPPER CASE ASSY Inc.MONITOR ASSY	Fig.1-3-3	3(S③a),6(S③b),(S③c),CN③a	NOTE③a NOTE③b NOTE③c
④	OP BLOCK ASSY	Fig.1-3-4	CN④a,CN④b,CN④c,2(S④),(L④a),(L④b)	NOTE④
⑤	DSC BOARD ASSY	Fig.1-3-5	(L⑤),CN⑤a,CN⑤b	NOTE⑤
⑥	REAR COVER ASSY	Fig.1-3-6	CN⑥a,2(S⑥a),(S⑥b)	-
⑦	E.VF ASSY	Fig.1-3-7	CN⑦a,(S⑦a),2(S⑦b),(L⑦a),(L⑦b),2(L⑦c)	NOTE⑦
⑧	LOWER CASE ASSY	Fig.1-3-8	CN⑧a,CN⑧b,3(S⑧a),(S⑧b),2(L⑧a),(L⑧b)	-
⑨	MAIN BOARD ASSY	Fig.1-3-9	CN⑨a,(S⑨),(L⑨)	
⑩ / ⑪	PRE/MDA BOARD ASSY, MECHANISM ASSY	Fig.1-3-10	3(S⑩a),BKT(MECHA)ASSY,2(S⑩b),SHIELD COVER(PRE/REC),(L⑩),CN⑩a,CN⑩b,CN⑩c,CN⑩d,CN⑩e,CN⑩f 3(S⑩b)	NOTE⑩a NOTE⑩b

Table 1-3-2

Note: *Remove the parts marked in* .

CONN. No.	CONNECTOR					Pin No.
CN①a	JUNCTION	CN1102	⇔	ZOOM OPE UNIT	–	8
CN②a	JUNCTION	CN1101	⇔	MAIN	CN112	16
CN②b	MAIN	CN103	⇔	SHOE ASSY	–	16
CN②c	FRONT	CN2413	⇔	EJECT	CN2411	6
CN②d	FRONT	CN2412	↔	MICROPHONE	–	3
CN②e	FRONT	CN2411	⇔	SW FPC UNIT	–	6
CN②f	JUNCTION	CN1104	⇔	FOCUS UNIT	–	6
CN②g	JUNCTION	CN1105	↔	MICROPHONE	–	3
CN②h	FE SW	CN1181	↔	JUNCTION	CN1103	3
CN③a	MAIN	CN108	⬌	MONITOR	–	50
CN④a	MAIN	CN101	↔	CCD	–	2
CN④b	MAIN	CN102	⇔	CCD	–	20
CN④c	MAIN	CN104	⇔	OP BLOCK ASSY	–	24
CN⑤a	DSC	CN8401	⬌	MAIN	CN105	80
CN⑤b	DSC	CN8402	⇔	JACK	CN301	20/45
CN⑥a	MAIN	CN109	⬌	REG	CN601	80
CN⑦a	MAIN	CN110	⇔	E.VF ASSY(VF BL)	CN501	22
CN⑧a	EJECT	CN2422	⇔	MAIN	CN113	6
CN⑧b	JACK	CN301	⇔	MAIN	CN111	24/45
CN⑨a	MAIN	CN106	⬌	PRE/MDA	CN401	80
CN⑩a	PRE/MDA	CN406	⇔	SENSOR	–	16
CN⑩c	PRE/MDA	CN404	⇔	DRUM MOTOR	–	11
CN⑩d	PRE/MDA	CN402	⇔	HEAD	–	8
CN⑩e	PRE/MDA	CN407	⇔	ROTARY ENCODER	–	6
CN⑩f	PRE/MDA	CN403	⇔	LOADING MOTOR	–	6

Table 1-3-3

NOTE ②a: *Open the cassette cover after removing the screws.*

NOTE ②b: *Be sure to confirm the position of the screws.*

NOTE ②c: *Be careful not to damage the FPC when unplugging it.*

NOTE ②d: *As the ⑦ OP Block Assembly is exposed as a result of the above steps, be careful not to damage any of its parts. Take particular care not to scratch the lens surfaces.*

NOTE ②e: *Treat the microphone wire with care.*

NOTE ②f: *When mounting, be careful not to damage the switches.*

NOTE ③a/③b: *Be sure to confirm the position of the screws.*

NOTE ③c: *For the disassembly of the ⑫ Monitor Assembly, see section 1.6, "Disassembly/Assembly of ⑫ Monitor Assembly".*

NOTE ④: *For the disassembly of the ④ OP block assembly, see section 1.4, "Disasembly/Assembly of ④ OP block assembly.*

NOTE ⑤: *Be careful not to damage the CONNECTOR.*

NOTE ⑦: *For the disassembly of the ⑦ E.VF, see section 1.4, "Disassembly/Assembly of ⑦ E.VF".*

NOTE ⑩a: *The FPC of the loading motor should be mounted by inserting it between the Mechanism Assembly and the PRE/MDA Board Assembly.*

NOTE ⑩b: *When mounting the shield cover, push down the FPC of the drum while attaching it.*

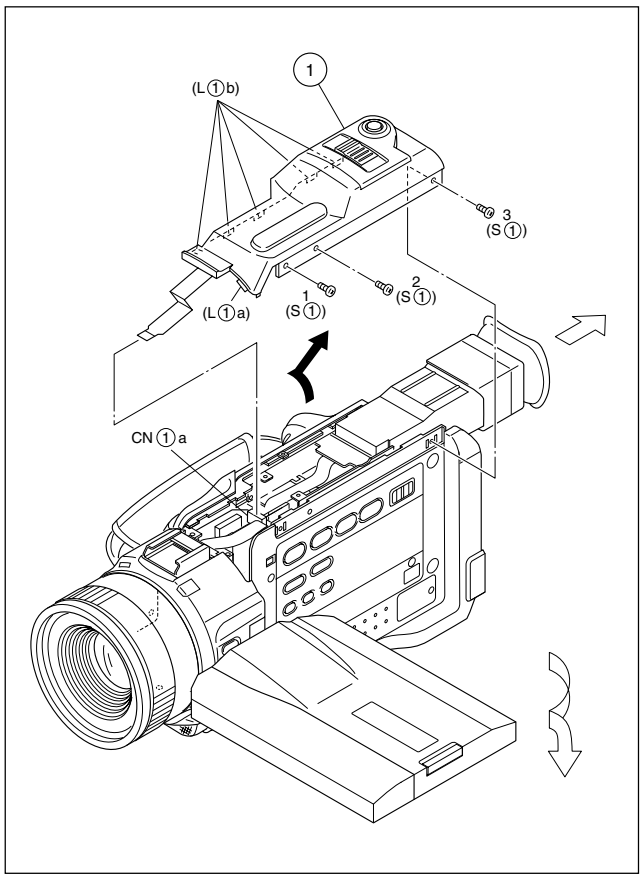


Fig. 1-3-1

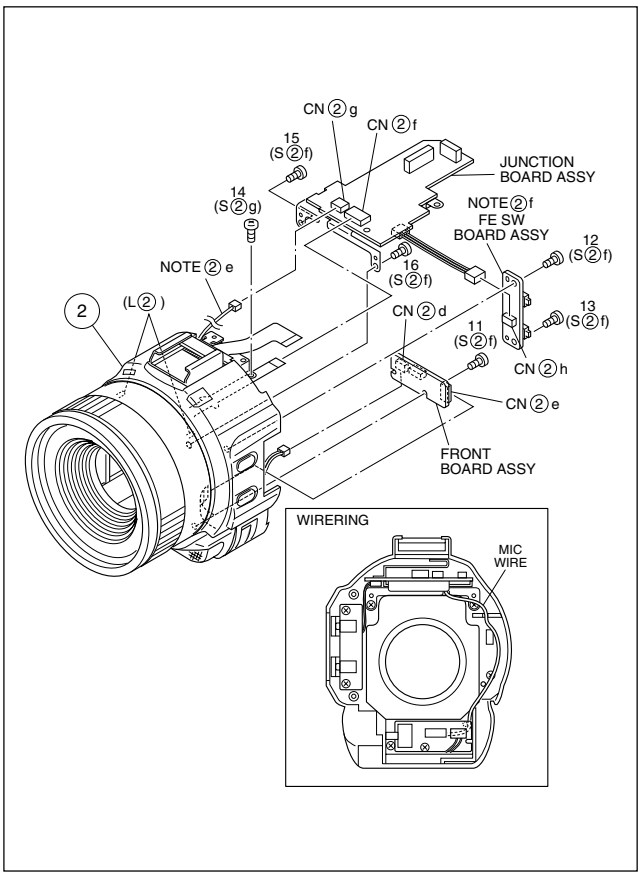


Fig. 1-3-2b

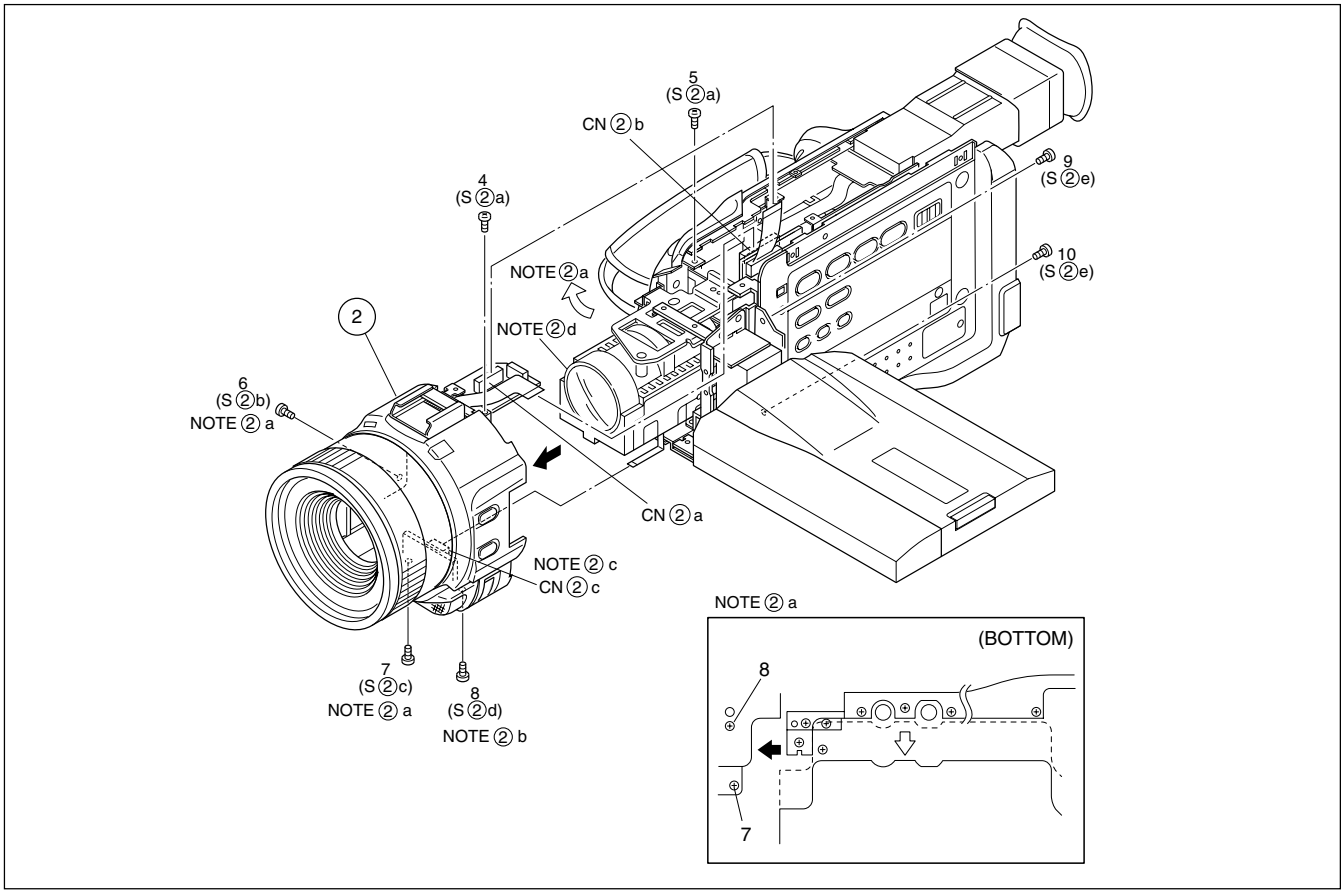


Fig. 1-3-2a

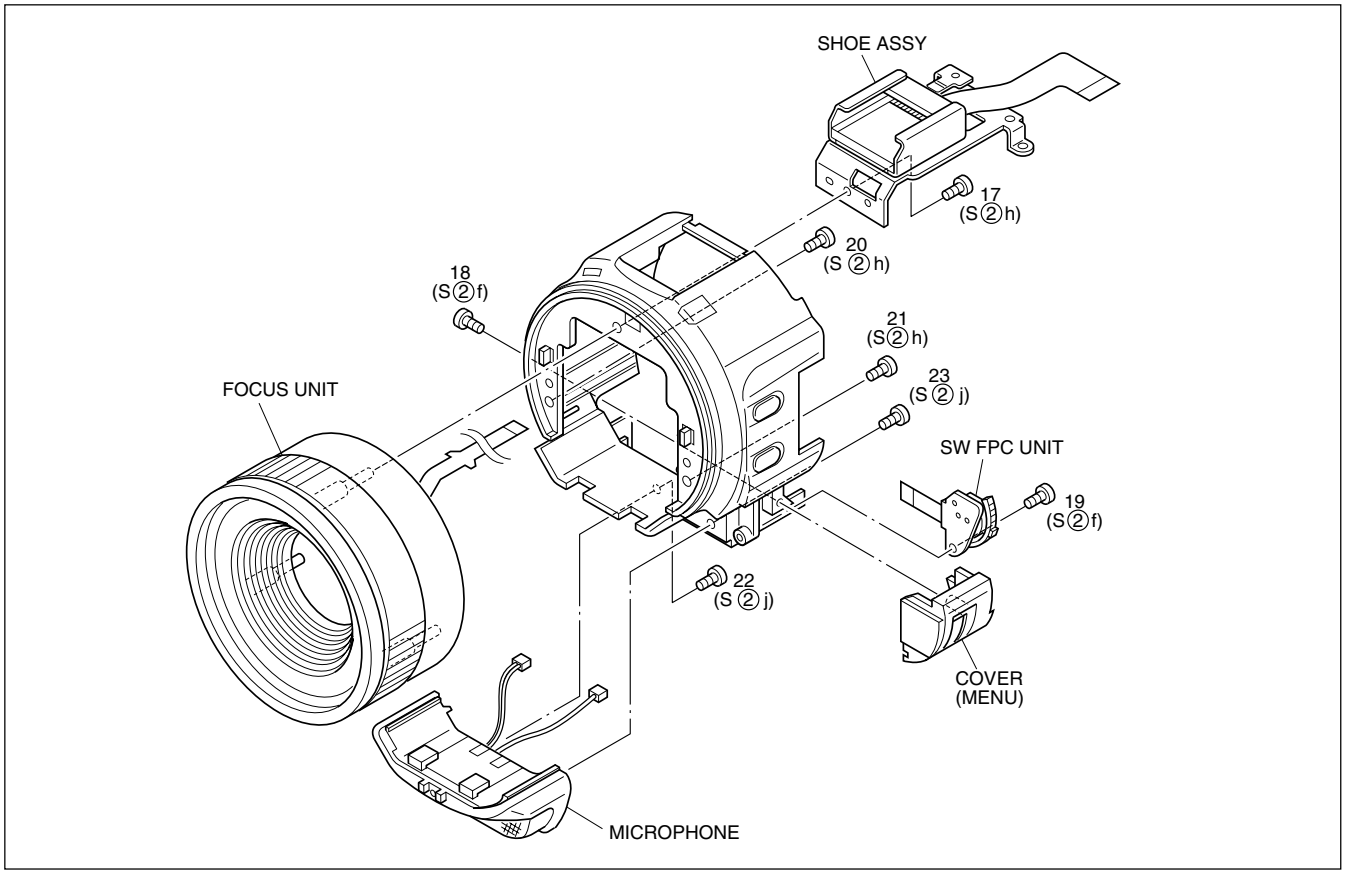


Fig. 1-3-2c

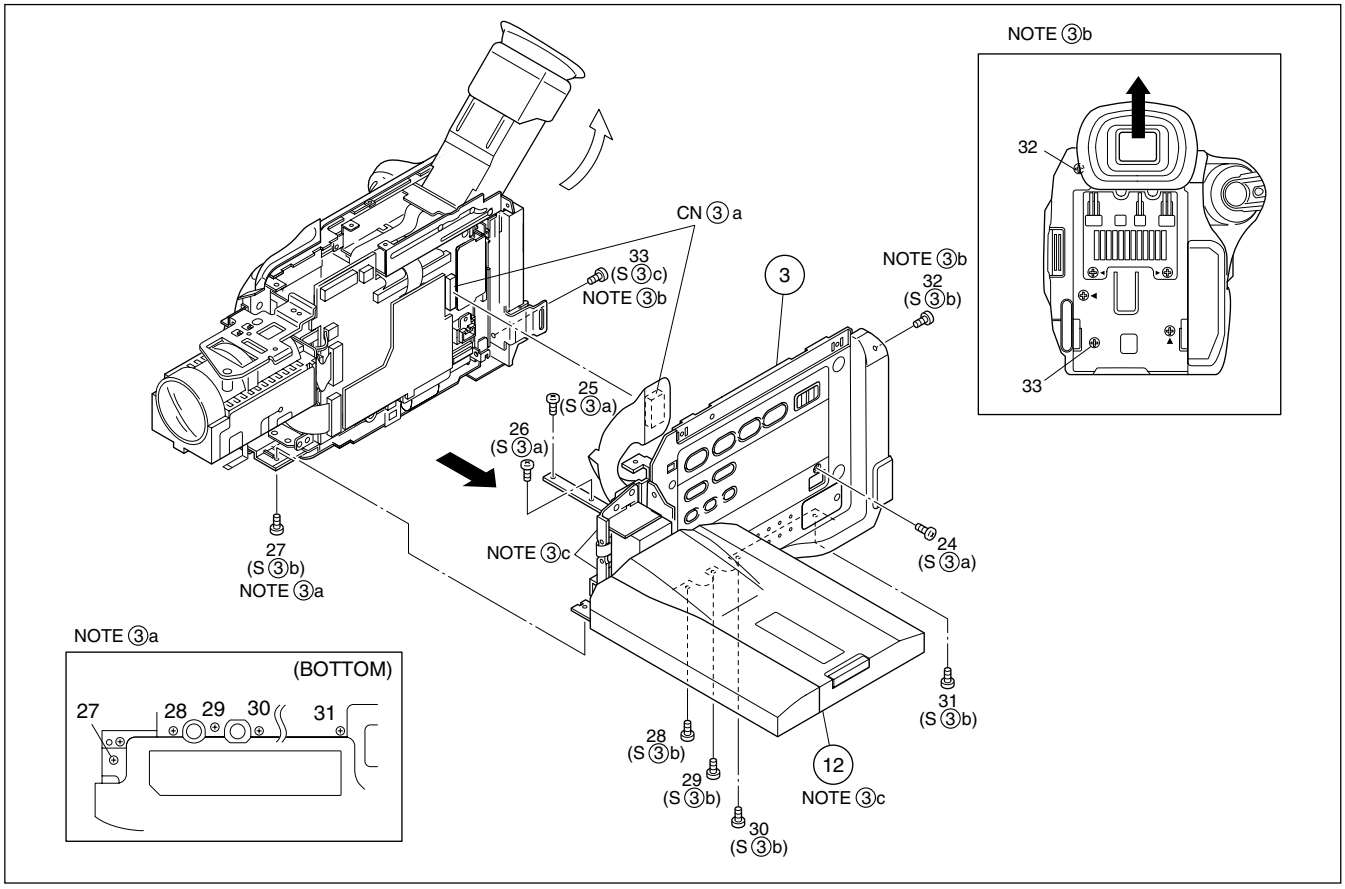


Fig. 1-3-3

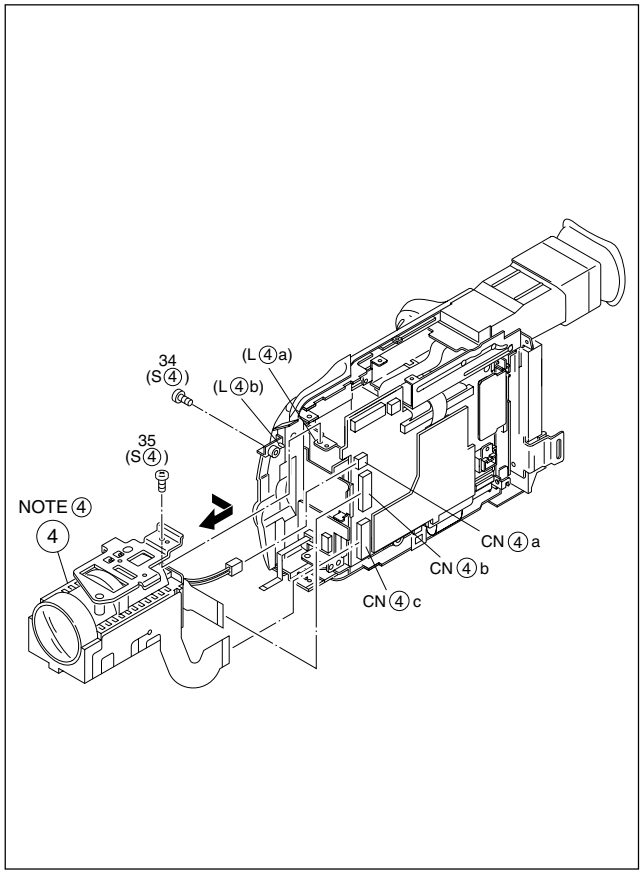


Fig. 1-3-4

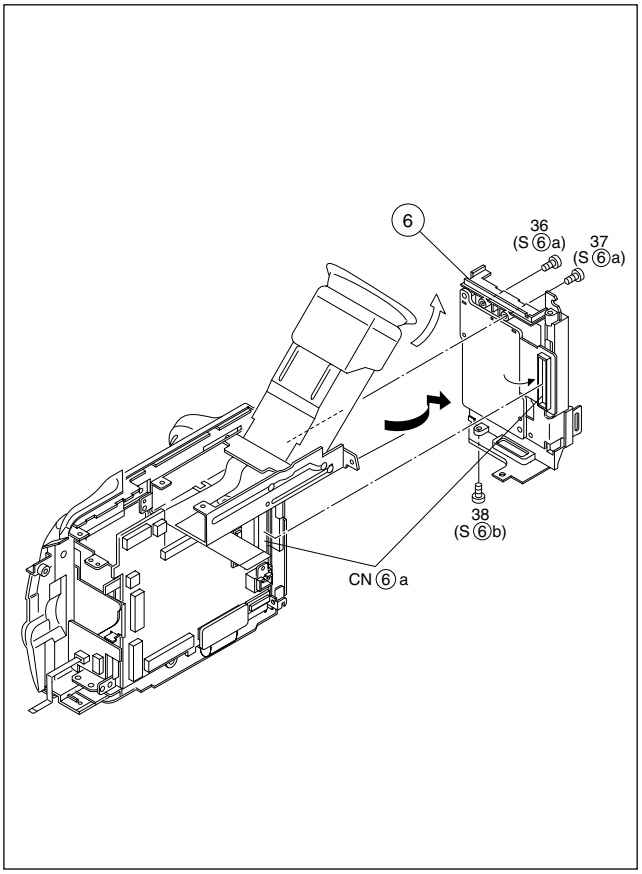


Fig. 1-3-6

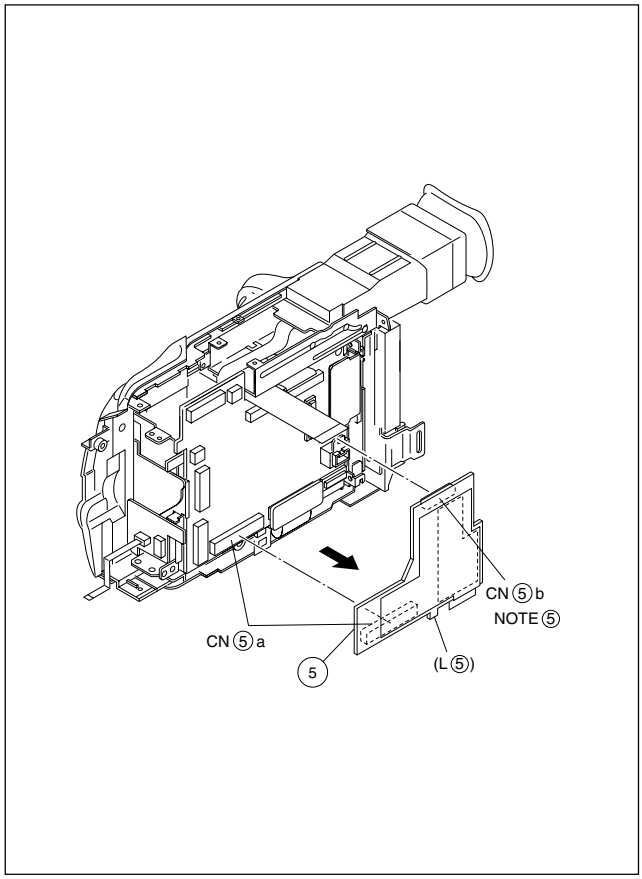


Fig. 1-3-5

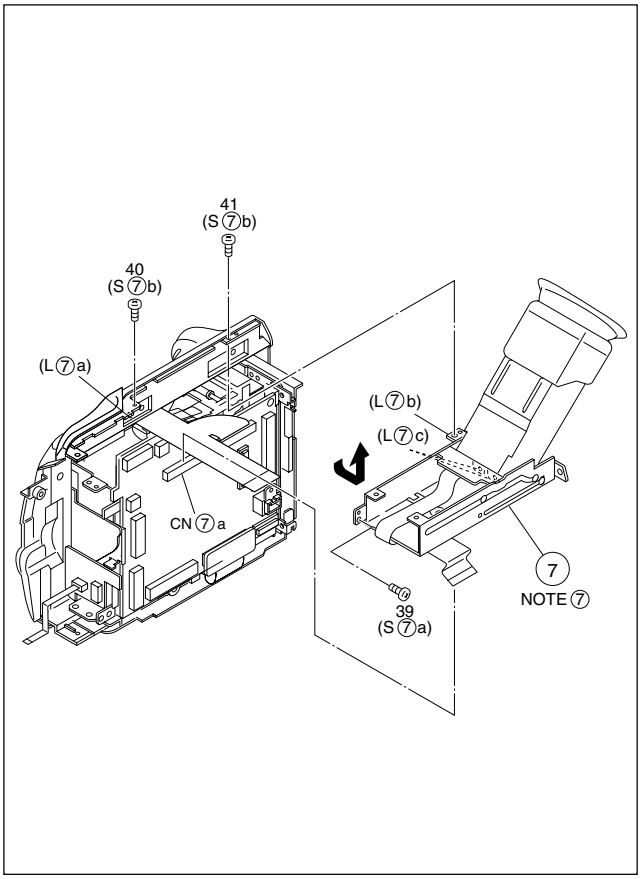


Fig. 1-3-7

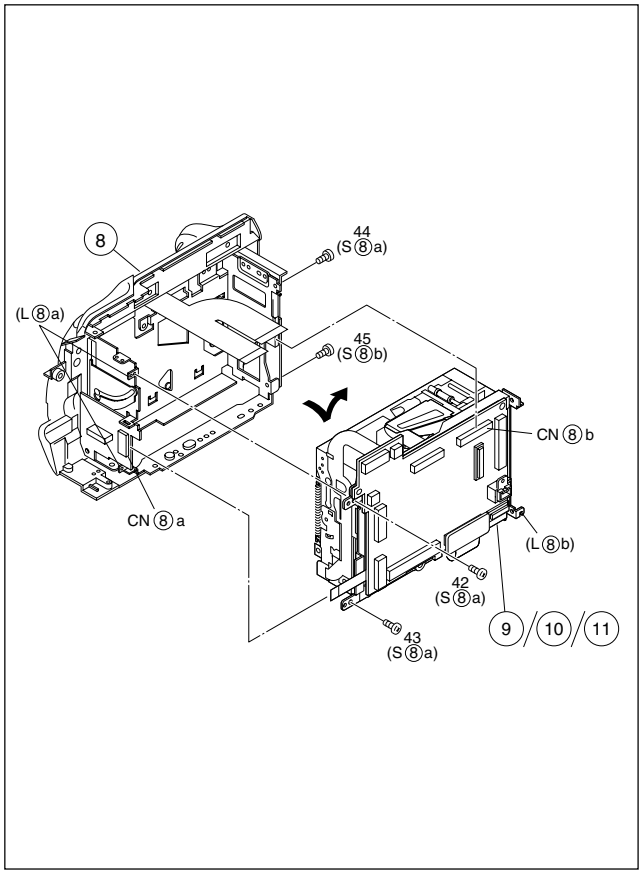


Fig. 1-3-8

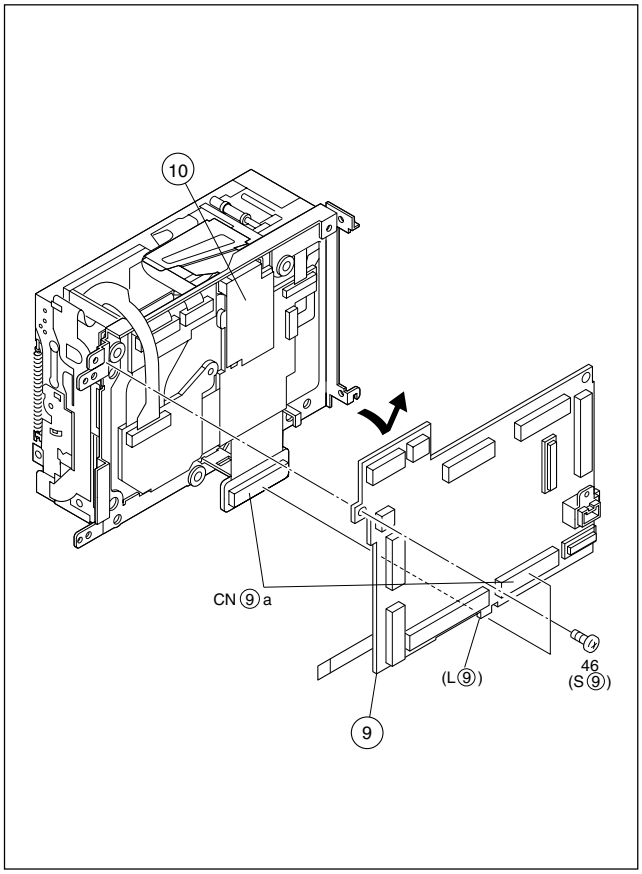


Fig. 1-3-9

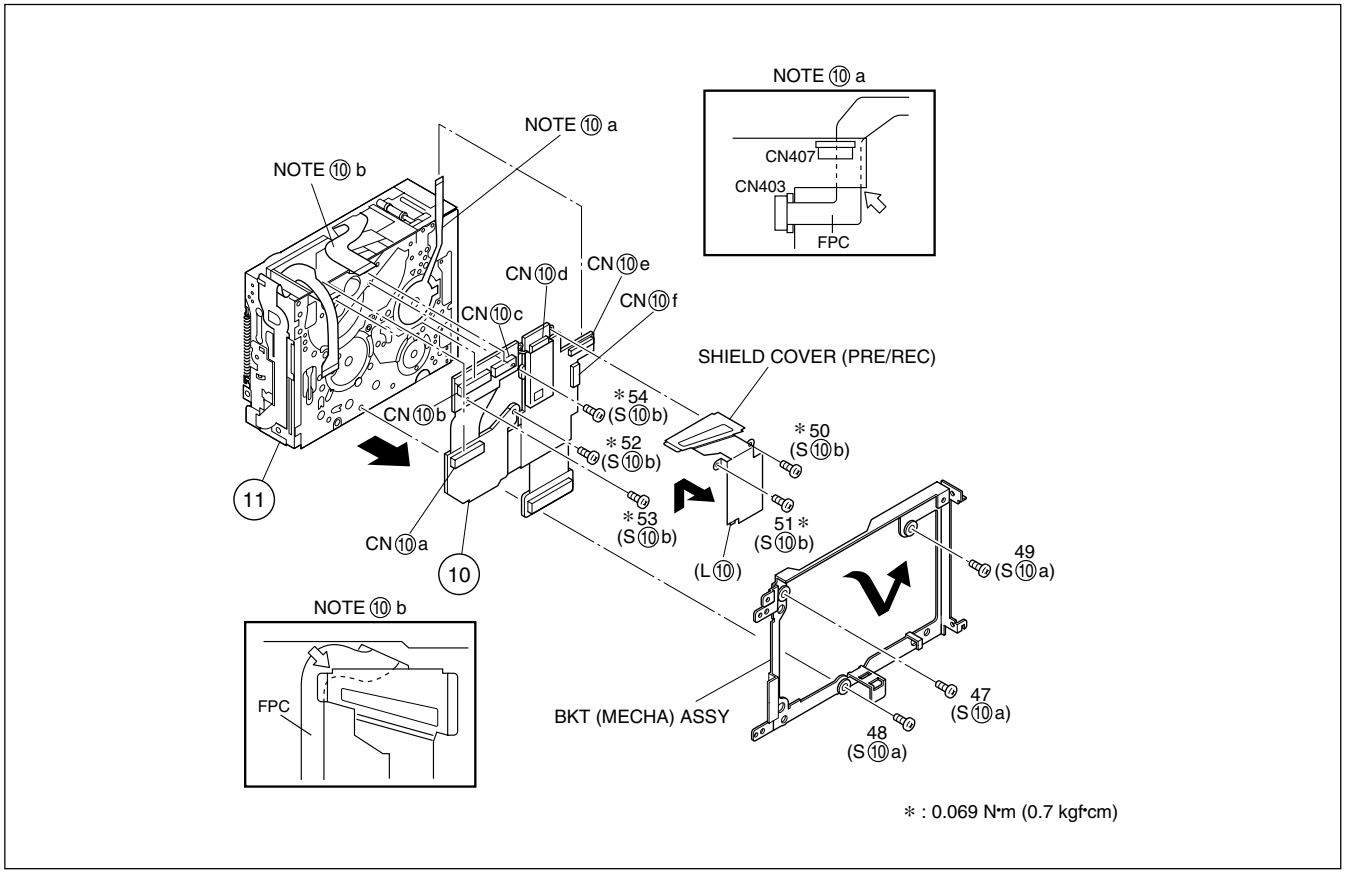


Fig. 1-3-10

1.4 DISASSEMBLY OF THE ④ OP BLOCK AND CCD BOARD ASSEMBLIES

1.4.1 Precautions

1. Take care in handling the CCD image sensor, optical LPF and lens components2when performing maintenance etc., especially with regard to surface contamination, attached dust or scratching. If fingerprints are present on the surface they should be wiped away using either a silicon paper, clean chamois or the cleaning cloth recommended by the Video Product Division.
2. The CCD image sensor may have been shipped with a protective sheet attached to the transmitting glass. When replacing the CCD image sensor, do not peel off this sheet from the new part until immediately before it is mounted in the OP Block Assembly.

1.4.2 How to remove

1. Remove the solder (SD①) from the 16 soldered points on the CCD Board Assembly and take the assembly out.
2. Remove the two screws (1, 2) and take out the CCD Base Assembly.

Note ④a: *When removing the CCD Base Assembly, be careful not to take out the CCD image sensor together with the spacer rubbers attached to it.*

Note ④b: *The CCD image sensor should not be replaced as a single part but should be replaced together with the entire CCD Base Assembly.*

1.4.3 How to install

1. With the spacer rubbers attached to the CCD base, mount the CCD base in the OP Block Assembly and tighten them together using the two screws (1, 2).
2. Mount the CCD Board Assembly and attach solder to the 16 points (SD①).

1.4.4 Replacement of Service Repair Parts

The service repair parts for the OP Block Assembly are as listed below.
Before replacement of these parts, remove the bracket (OP assyembly) as required.
Take special care not to disconnect any of the FPC wires or cause any damage due to soldering (excessive heating).

1. Focusing motor
2. Zoom motor
3. Iris motor unit

Note ④c: *When replacing the focusing motor or the zoom motor, solder the FPC at a space of about 1 mm above the terminal pin.*
When assembling, make sure that the slide section is positioned correctly.

Note ④d: *The iris motor unit includes the FPC Assembly, switch and two sensors.*

Note ④e: *Be careful not to damage the switch.*

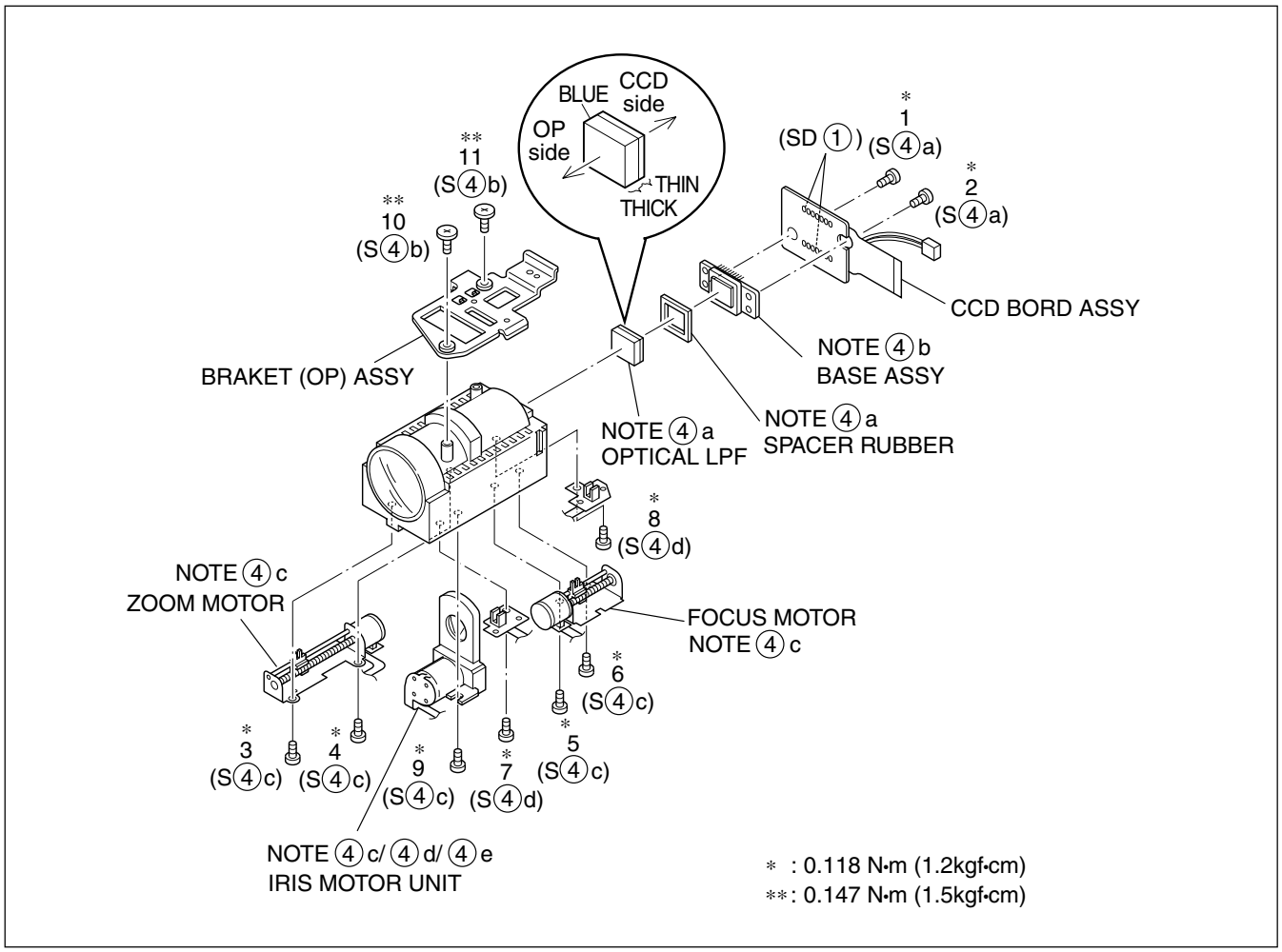


Fig. 1-4-1

1.5 ⑦ E.VF(COLOR)

1.5.1. Disassembly/Assembly of the ⑦ E.VF(COLOR)

1. Remove the two screws (1 and 2) and then remove the EYE CUP.
2. Remove the two screws (3 and 4).
3. Pull out the VF assembly and then remove the three screws (5 to 7) to release the FPC ASSY.
4. Remove the two screws (8 and 9) then lift the E.VF from the BRACKET (VF) ASSY and take out the FPC ASSY.

   Note⑦a : *Be careful not to disconnect or break the FPC ASSY wire.*
5. Remove the two screws (10 and 11) to remove the UPPER CASE ASSY.
6. Remove the LCD UNIT from the BOTTOM CASE ASSY.

   Note⑦b : *Refer to the parts list for detail of the parts.*
7. Remove the screw (12) and then remove the HOLD ASSY (for lens), LINK (for lens), wave washer, LEVER (for lens).

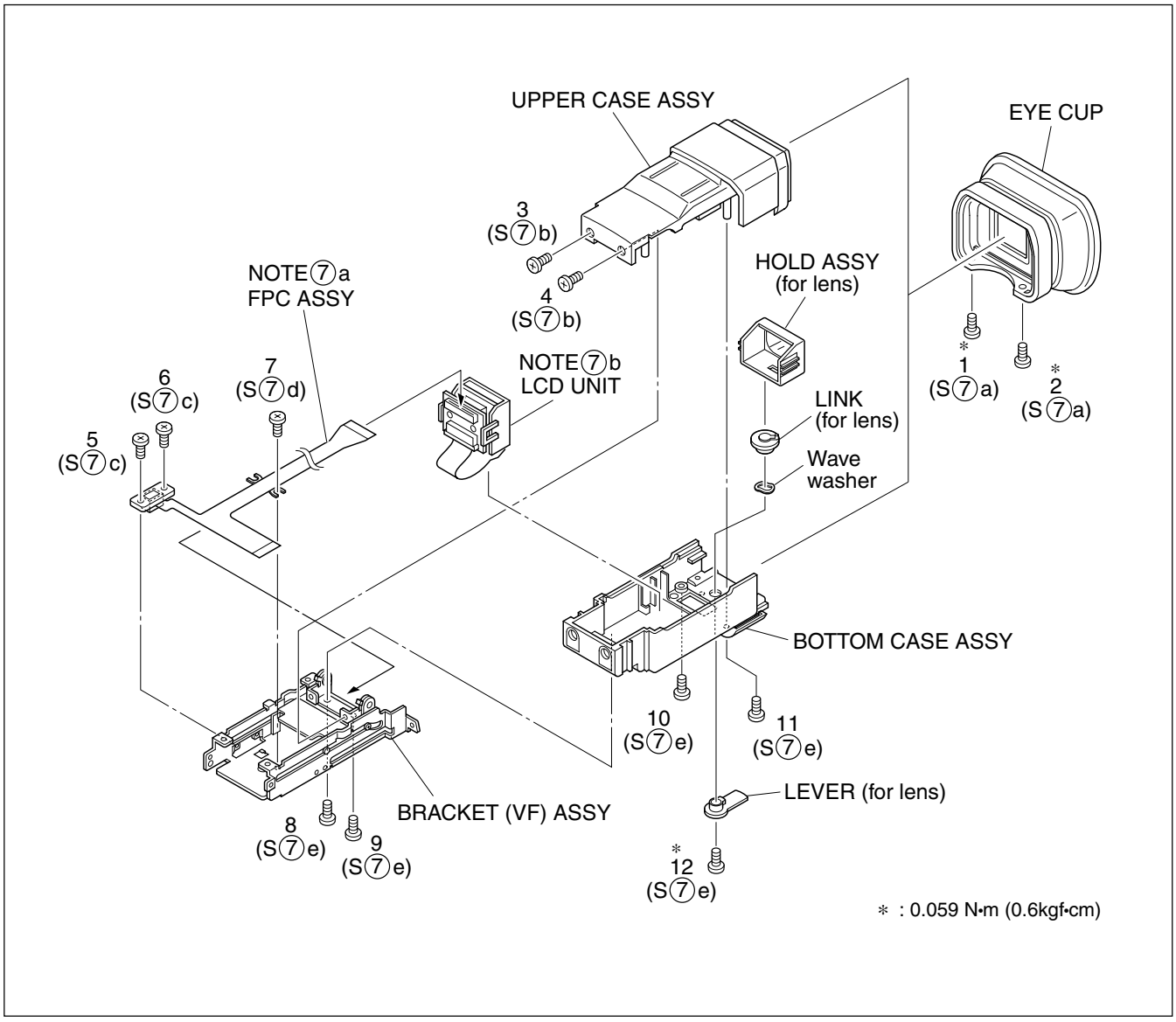


Fig. 1-5-1

1.6 DISASSEMBLY/ASSEMBLY OF THE ⑫ MONITOR ASSEMBLY

1.6.1 ⑫ Monitor Assembly and Hinge Assembly

Note:

- *Before proceeding to the work, separate the Monitor Assembly from the Upper Case Assembly as required.*

1. Remove the four screws (1 to 4), disengage the four hooks (L⑫a to L⑫d) in order, and take out the Monitor Cover Assembly.
2. Unlock the connector (⑫a) and, while lifting the Hinge Assembly, unplug and take out the FPC.
3. Remove the screw (5) and take out the bracket (MONITOR CASE).
4. Unplug the FPC from the connector (⑫b) and take out the Monitor Board Assembly and the backlight.
5. Remove the LCD module by disengaging the five hooks (L⑫e to L⑫j).
6. Remove the two screws (6, 7) and take out the hinge covers (U, L) by disengaging the four hooks (L⑫k, L⑫l) at both sides of each of the hinge covers.
7. Remove the FPC Assembly from the Hinge Assembly.

Note ⑫a: *Be careful not to damage the FPC or the connector when removing the Monitor Cover Assembly.*

Note ⑫b: *Be careful not to damage the parts when removing or mounting the Hinge Assembly.*

Note ⑫c: *To unplug the FPC, release only the lock of the connector and remove the FPC together with the Hinge Assembly.*

Note ⑫d: *As the backlight is soldered at two points on the Monitor Board Assembly, the solder should be removed when disassembling the backlight as a single part.*

Note ⑫e: *Take care when handling the FPC.*

Note ⑫f: *Be careful not to lose the magnets and attach them in the correct orientation.*

Note ⑫g: *When mounting the FPC Assembly, wrap it around the Hinge Assembly by 3-1/2 turns.*

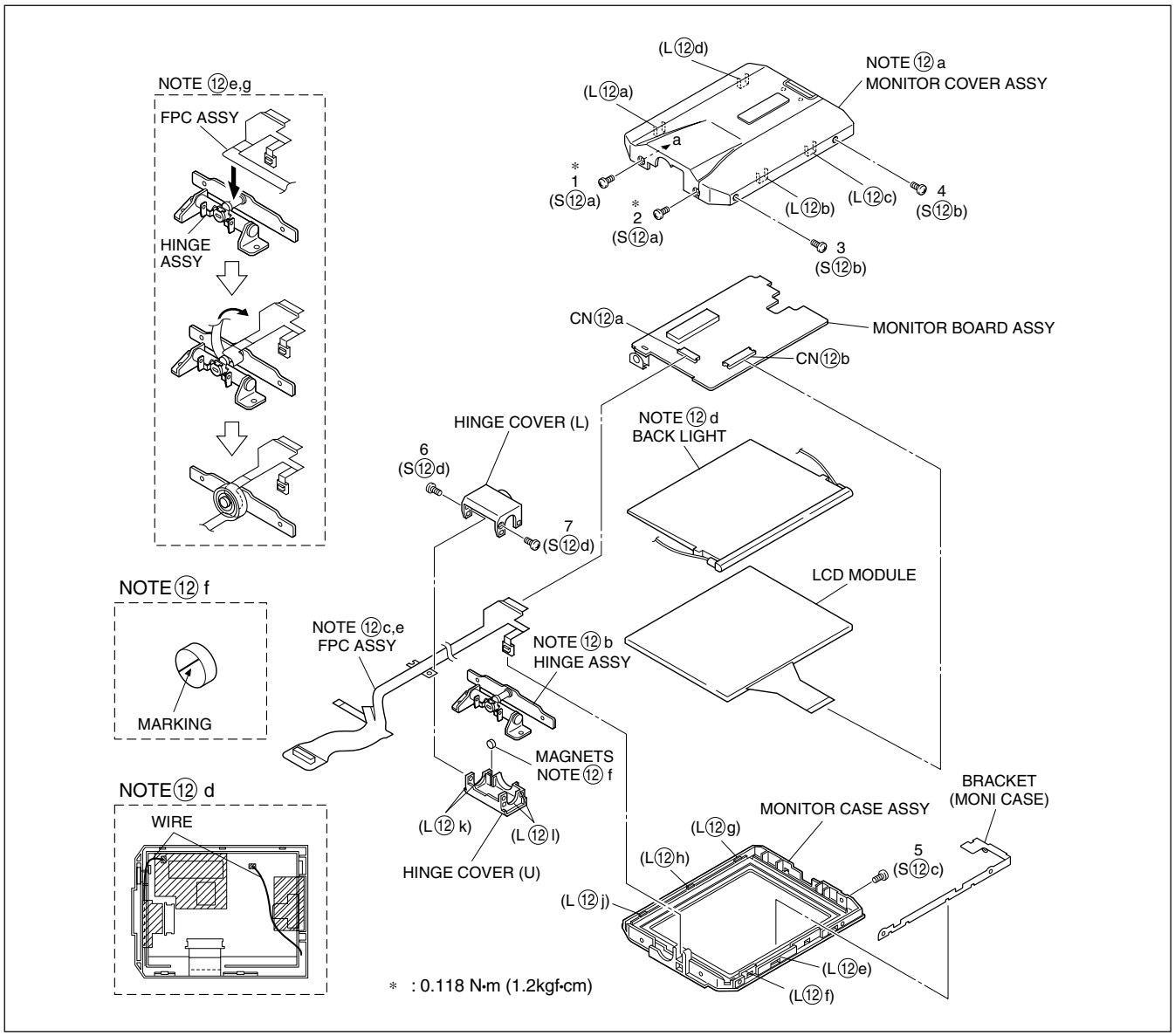


Fig. 1-6-1

1.7 MANUAL EJECTION OF THE CASSETTE TAPE

Note: *The following procedure describes a simplified method of ejecting the cassette tape in case it is not possible to eject it, due to an electrical failure.*

Be careful not to damage any of the parts or the tape when performing repairs or maintenance work.

1. Remove the Power Unit (battery, DC code, etc.) from the main unit.
2. Open the cassette cover.
3. Attach a piece of PVC tape at the front of the cassette housing.

Note: *This helps prevent the tape from being damaged when the Cassette Housing Assembly is moved upward at the unloading end.*

4. In order to change the mechanism mode at the unloading end apply 3 V, DC to the electrode on the top surface of the Loading Motor Assembly and then set it to the eject mode.
5. If there is any slack tape in the tape transport system, wind it inside the cassette tape by turning the Supply Reel Disk from the backside of the Slide Deck Assembly.
6. Peel off the PVC tape and take out the cassette tape from the cassette housing.

Note: *Make sure that grease or a similar substance is not attached to the surface of the tape.*
Similarly, also make sure that grease or a similar substance is not attached on the Mechanism Assembly.

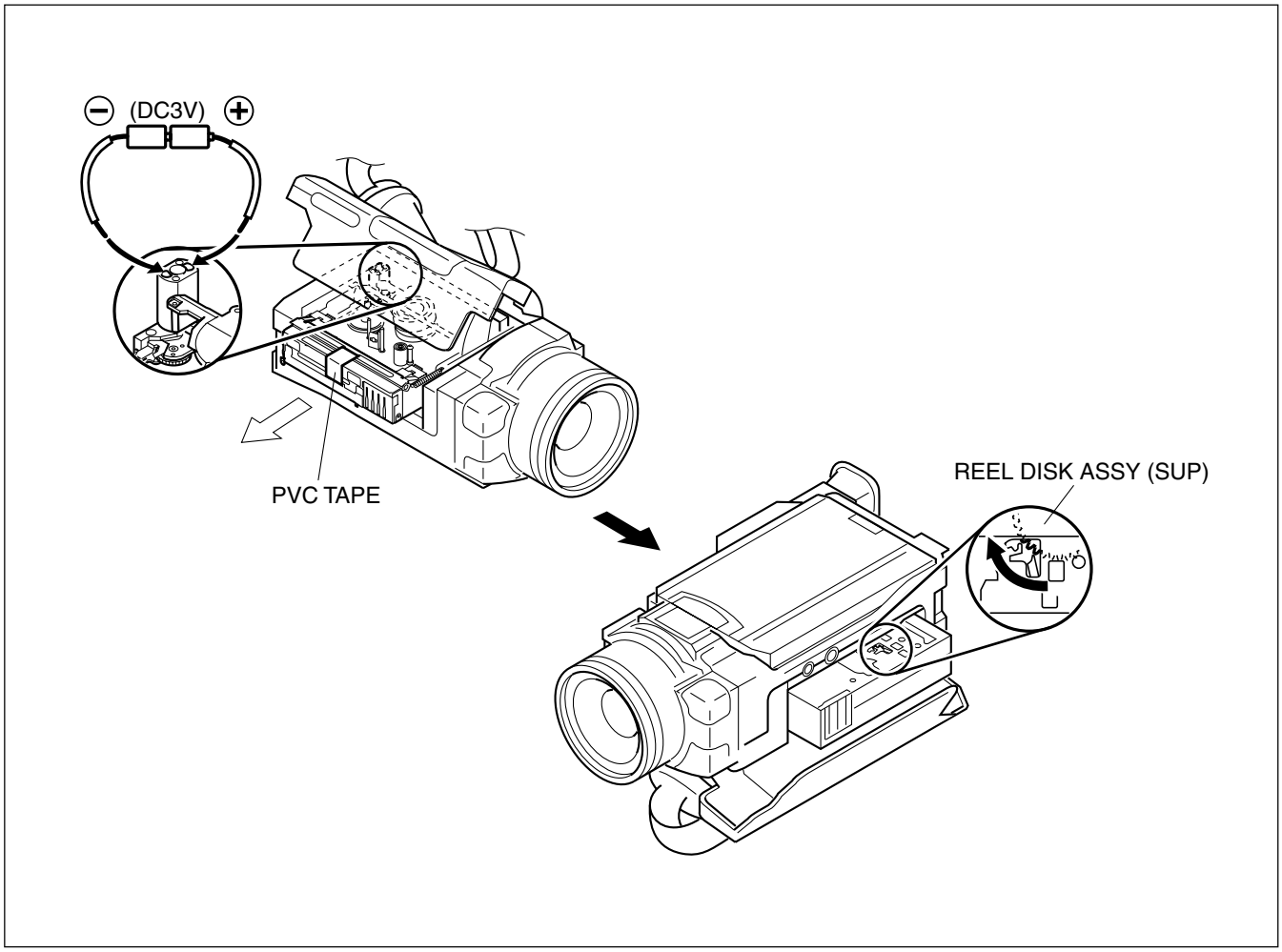


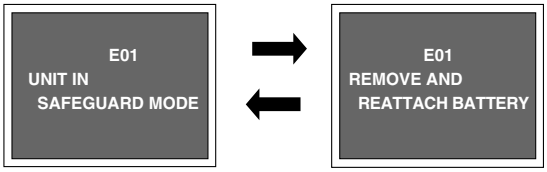
Fig. 1-7-1

1.8 EMERGENCY DISPLAY

Whenever some abnormal signal is input to the syscon CPU, an error number (E01, as an example) is displayed on the LCD monitor or (in the electronic view finder).
In every error status, such the message as shown below alternately appear over and over.

- In an emergency mode, all operations except turning on/off the POWER switch are ineffectual.

Example (in case of the error number E01):



LCD display	Emergency mode	Details	Possible cause
E01	LOADING	In the case the encoder position is not shifted to the next point though the loading motor has rotated in the loading direction for 4 seconds or more. This error is defined as [E01].	1. The mechanism is locked during mode shift. 2. The mechanism is locked at the mechanism loading end, because the encoder position is skipped during mechanism mode shift. 3. No power is supplied to the loading MDA.
E02	UNLOADING	In the case the encoder position is not shifted to the next point though the loading motor has rotated in the unloading direction for 4 seconds or more. This error is defined as [E02].	1. The mechanism is locked during mode shift. 2. The mechanism is locked at the mechanism loading end, because the encoder position is skipped during mechanism mode shift.
E03	TU & SUP REEL FG	In the case no REEL FG is produced for 4 seconds or more in the capstan rotation mode after loading was complete, the mechanism mode is shifted to STOP with the pinch roller set off. This error is defined as [E03]. However, no REEL EMG is detected in the SLOW/STILL mode.	1. The idler gear does not engage with the reel disk well. 2. Though the idler gear and reel disk are engaged with each other, the tape is not wound because of overload to the mechanism. 3. No FG pulse is output from the reel sensor. 4. No power is supplied to the reel sensor. 5. Tape transport operation takes place with a cassette having no tape inside. 6. The tape slackens and no pulse is produced until the slack is taken up and the tape comes into the normal status.
E04	DRUM FG	In the case there is no DRUM FG input in the drum rotation mode for 4 seconds or more. This error is defined as [E04], and the mechanism mode is shifted to STOP with the pinch roller set off.	1. The drum cannot be started or drum rotation is stopped because tape transport load is too high. 1) Tape tension is extremely high. 2) The tape is damaged or soiled with grease, etc. 2. The DRUM FG signal is not received by the syscon CPU. 1) Disconnection in the middle of the signal line. 2) Failure of the DRUM FG pulse generator (hall element). 3. No drum control voltage is supplied to the MDA. 4. No power is supplied to the DRUM MDA.
E05	–	–	–
E06	CAPSTAN FG	In the case no CAPSTAN FG is produced in the capstan rotation mode for 2 seconds or more. This error is defined as [E06], and the mechanism mode is shifted to STOP with the pinch roller set off. However, no CAPSTAN EMG is detected in the STILL/FF/REW mode.	1. The CAPSTAN FG signal is not received by the syscon CPU. 1) Disconnection in the middle of the signal line. 2) Failure of the CAPSTAN FG pulse generator (MR element). 2. No capstan control voltage is supplied to the MDA. 3. No power is supplied to the CAPSTAN MDA. 4. The capstan cannot be started or capstan rotation is stopped because tape transport load is too high. 1) Tape tension is extremely high. (Mechanical locking) 2) The tape is damaged or soiled with grease, etc. (Tape tangling occurs, etc.)

(DVC_03)

Table 1-8-1

Symbol No. →	①			②																			
Removing order of screw →	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Place to stick screw →	*	*	*	*	*									*									
Reference drawing →	Fig. 1-3-1			Fig. 1-3-2a							Fig. 1-3-2b						Fig. 1-3-2c						
Screw tightening torque →	I																						

Symbol No. →	③										④		⑤	⑥			⑦		
Removing order of screw →	24	25	26	27	28	29	30	31	32	33	34	35	–	36	37	38	39	40	41
Place to stick screw →	*	*	*								*	*						*	*
Reference drawing →	Fig. 1-3-3										Fig. 1-3-4		Fig. 1-3-5	Fig. 1-3-6			Fig. 1-3-7		
Screw tightening torque →	I												–	I					

Symbol No. →	⑧				⑨	⑩ / ⑪							
Removing order of screw →	42	43	44	45	46	47	48	49	50	51	52	53	54
Place to stick screw →		*	*										
Reference drawing →	Fig. 1-3-8				Fig. 1-3-9	Fig. 1-3-10							
Screw tightening torque →	I					I			II				

	④ OP BLOCK ASSY										
Removing order of screw →	1	2	3	4	5	6	7	8	9	10	11
Place to stick screw →											
Reference drawing →	Fig. 1-4-1										
Screw tightening torque →	III									IV	

Symbol No. →	⑦ E. VF ASSY											
Removing order of screw →	1	2	3	4	5	6	7	8	9	10	11	12
Place to stick screw →					*	*	*	*				
Reference drawing →	Fig. 1-5-1											
Screw tightening torque →	V		I									V

⑫ MONITOR ASSY						
1	2	3	4	5	6	7
*	*					
Fig. 1-6-1						
III	I					

< NOTE >

1) * ; Don't reuse the screw, because screw lock bond was applied to them.

2) Pay careful attention to tightening torque for each screw.

I : 0.078N·m (0.8kgf·cm) II : 0.069N·m (0.7kgf·cm) III : 0.118N·m (1.2kgf·cm)

IV : 0.147N·m (1.5kgf·cm) V : 0.059N·m (0.6kgf·cm)

Table 1-9-1

SECTION 2
MECHANISM ADJUSTMENT

2.1 PRELIMINARY REMARKS ON ADJUSTMENT AND REPAIR

2.1.1 Precautions

1. When fastening parts, pay careful attention to the tightening torque of each screw. Unless otherwise specified, tighten a screw with the torque of 0.039 N•m (0.4 kgf•cm).
2. Be sure to disconnect the set from the power supply before fastening and soldering parts.
3. When disconnecting/connecting wires, be careful not to get them and their connectors damaged. (Refer to the Section 1.)
4. When replacing parts, be very careful neither to damage other parts nor to fit wrong parts by mistake.
5. In the following work, use the patch cords as required. For details of the patch cords, see the "4.1 BOARD INTERCONNECTIONS" (SECTION 4, CHART AND DIAGRAM).
6. Some mechanism parts may be added to or deleted from the parts list depending on a particular product modification.
   Please refer to the "SECTION 5, PARTS LIST" for details of the parts available.

2.1.2 Notes on procedure for disassemby/assembly

The disassembling procedure table (Table 2-4-1 on page 2-5,a part of the table is shown below for reference)shows the procedure to disassemble/reassemble mechanism parts.
Carefully read the following explanation before starting actual disassembling/reassembling work. The item numbers (circled numbers)in the following explanation correspond to those appearing under respective columns of the table.

(1) Circled numbers appearing in this column indicate the order to remove parts. When reassembling, follow these numbers in the reverse order. Circled numbers in this column correspond to those appearing in drawings of this section.

(2) This column shows part names corresponding to circled numbers in the left column.

(3) The symbol (T or B)appearing in this column shows the side which the objective part is mounted on.
T =the upper side, B =the lower side

(4) Symbols appearing in this column indicate drawing numbers.
Step Part Name Fig. Point Note Remarks

(5) This column indicates parts and points such as screws, washers,springs,and others to be removed/fitted for disassembling/reassembling the mechanism. Besides such the parts, this column occasionally indicates working points.

P = Spring
W = Washer
S = Screw
∗ = Lock (L),soldering (SD),shield,connector (CN), etc.

Example
- Remove ((W1)=Washer W1.
- ∗Remove the solder at (SD1)=Point SD1.
- ∗Disconnect Ⓐ =Connector Ⓐ .

(6) Numbers in this column represent the numbers of notes in the text.For example, "1" means "Note 1".
(For parts that need phase adjustment after reassembling, refer to "2.6 MECHANISM ADJUSTMENTS".)

(7) This column indicates required after-disassembling/-reassembling work such as phase adjustment or mechanism adjustment.

NO.	PART NAME		FIG.	POINT	NOTE	REMARKS
①	CASSETTE HOUSING ASSY	T	Fig.2-4-3	3(S①),(L①a)-(L①e)	NOTE①a,b,c,d	ADJUSTMENT
②	UPPER BASE ASSY	T	Fig.2-4-4	(S②),(L②a),(L②b)	NOTE②	
③	DRUM ASSY	T		(S③a),2(S③b)	NOTE③a,b	
④	REEL DISK ASSY(SUP)	T	Fig.2-4-5	(W④)	NOTE④a	
⑤	REEL DISK ASSY(TU)	T		(W⑤)	NOTE⑤	
⑥	REEL COVER ASSY	T		2(W⑥),(S⑥a),2(S⑥b)	NOTE⑥	ADJUSTMENT
	(1)	(2)	(3)	(4) (5)	(6)	(7)

2.2 JIGS AND TOOLS REQUIRED FOR DISASSEMBLY, ASSEMBLY AND ADJUSTMENT

2.2.1 Tools required for adjustments

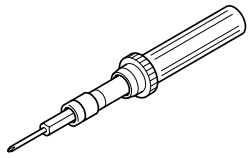
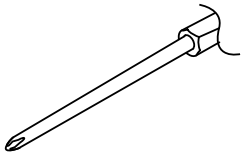
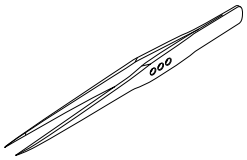
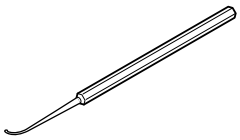
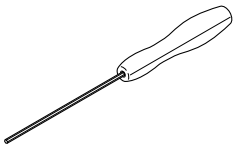
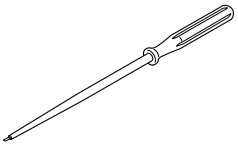
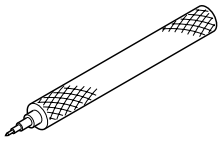
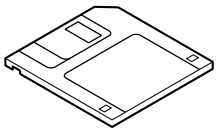
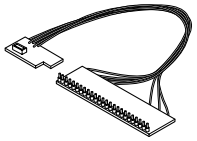
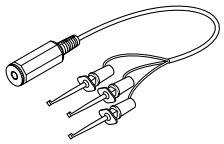
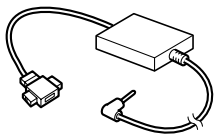
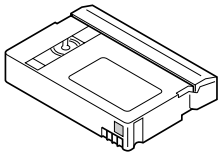
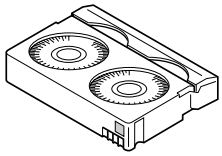
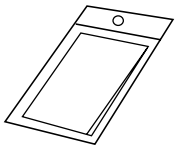
1 Torque driver YTU94088	2 Bit YTU94088-003
	
3 Tweezers P-895	4 Chip IC replacement jig PTS40844-2
	
5 Guide driver (Hexagonal) D-770-1.27	6 Adjustment driver YTU94028
	
7 Slit washer installation jig YTU94121A	8 Service support system YTU94057-55
	
9 Jig connector cable YTU93106B	10 Extension connector YTU94145C-30
	
11 Communication cable YTU93107A	12 PC cable QAM0099-002
	
13 Alignment tape MC-2	14 Cassette torque meter YTU94151A
	
15 Cleaning cloth KSMM-01	
	

Table 2-2-1

1. Torque driver
Be sure to use to fastening the mechanism and exterior parts because those parts must strictly be controlled for tightening torque.

2. Bit
This bit is slightly longer than those set in conventional torque drivers.

3. Tweezers
To be used for removing and installing parts and wires.

4. Chip IC replacement jig
To be used for adjustment of the camera system.

5. Guide driver (Hexagonal)
To be used to turn the guide roller to adjustment of the linarity of playback envelope.

6. Adjustment driver
To be used for adjustment.

7. Slit washer installation jig
To be used to install slit washers.

8. Service support system
To be used for adjustment with a personal computer.

9. Jig connector cable
Connected to CN107 of the main board and used for electrical adjustment, etc.

10. Extension connector
Connect this extension connector to the connector of the jig connector cable for extending the cable connector.

Note: *Removing the cover (for jig), use this extension connector double for connecting the jig connector cable.*

11. Communication cable
Connect the Communication cable between the PC cable and Jig connector cable when performing a PC adjustment.

12. PC cable
To be used to connect the VideoMovie and a personal computer with each other when a personal computer is used for adjustment.

13. Alignment tape
To be used for check and adjustment of interchangeability of the mechanism.

14. Cassette torque meter
This is used to cheek the back tension and play torque during mechanism adjustment.

Note: *When using the cassette torque meter, install the service support system software in advance.*
- *LED : Forced to ON*
- *EJECT SW : OFF (Cancel)*

The above setting is required to prevent any tape damage that may occur because the cassette torque meter cannot detect the leading/trailing sections of the tape.

15. Cleaning cloth
Recommended cleaning cloth to wipe down the video heads, mechanism (tape transport system), optical lens surface.

2.3 DISASSEMBLY/ASSEMBLY OF MECHANISM ASSEMBLY

2.3.1 General statement

The mechanism should generally be disassembled/assembled in the C.IN mode (ASSEMBLY mode). (Refer to Fig. 2-3-1,2.)
However, when the mechanism is removed from the main body, it is set in the STOP mode. Therefore, after the mechanism is removed from the main body, supply 3 V DC to the electrode on the top of the loading motor to enter the mechanism mode into the C,IN mode compulsory.

<Mechanism assembly/Cassette housing assembly>

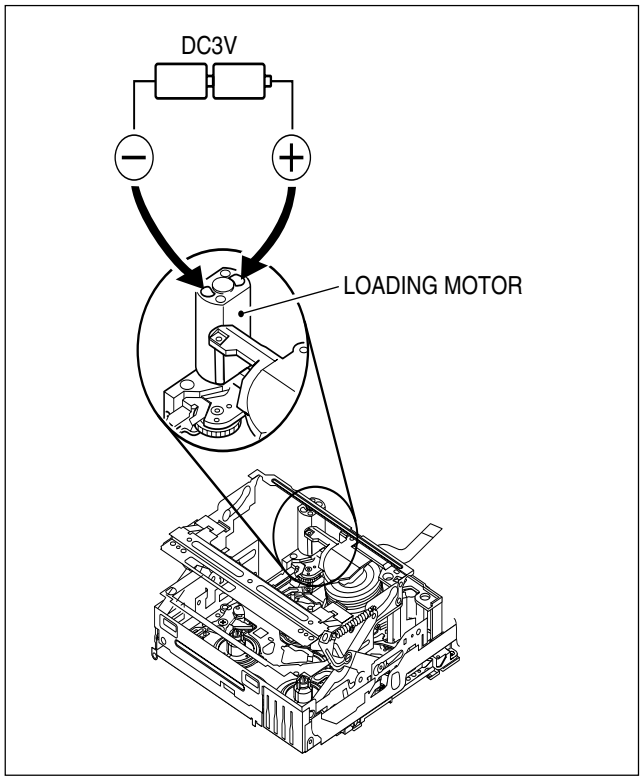


Fig. 2-3-1

<Back side of the mechanism assembly>

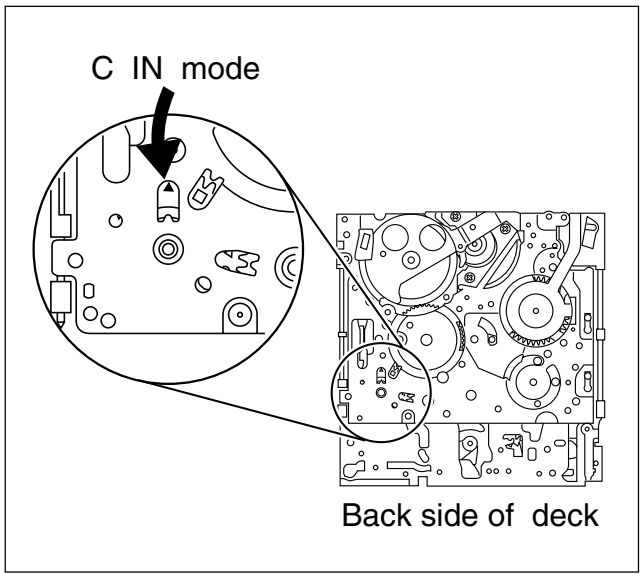


Fig. 2-3-2

2.3.2 Explanation of mechanism mode

The mechanism mode of this model is classified into five modes as shown in Table 2-3-1. Each mechanism mode can be distinguished from others by the relative position of "△", "○", "⬭" "□" marks on the sub cam gear to the inner or outer protrusion on the main deck.
Refer to Fig. 2-3-3 to 2-3-8 below.

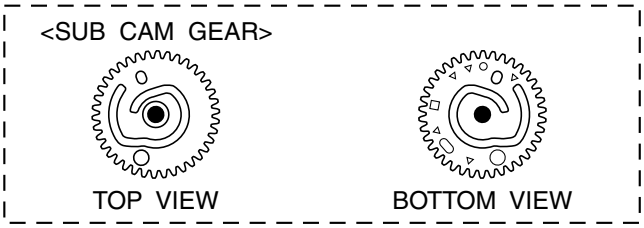


Fig. 2-3-3

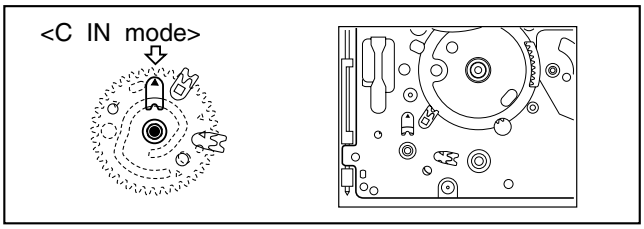


Fig. 2-3-4

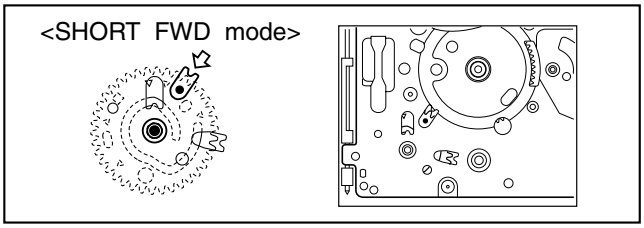


Fig. 2-3-5

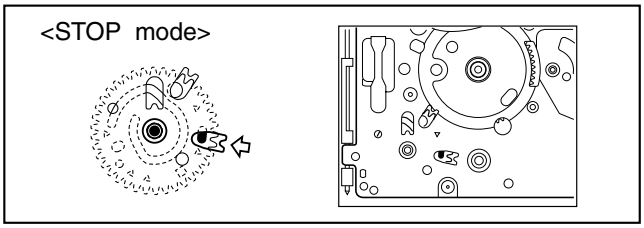


Fig. 2-3-6

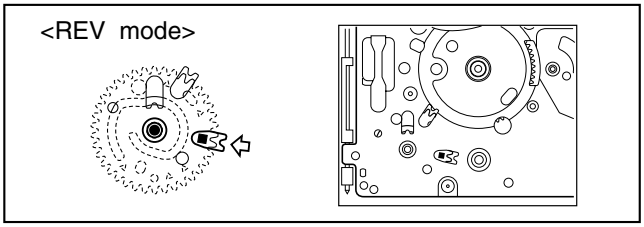


Fig. 2-3-7

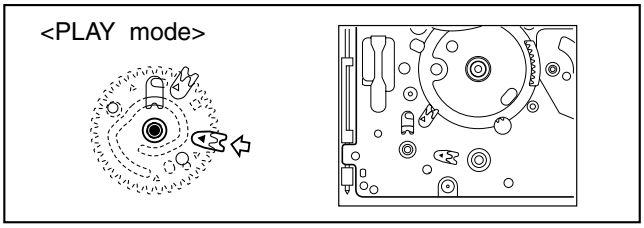


Fig. 2-3-8

2.3.3 Mechanism timing chart

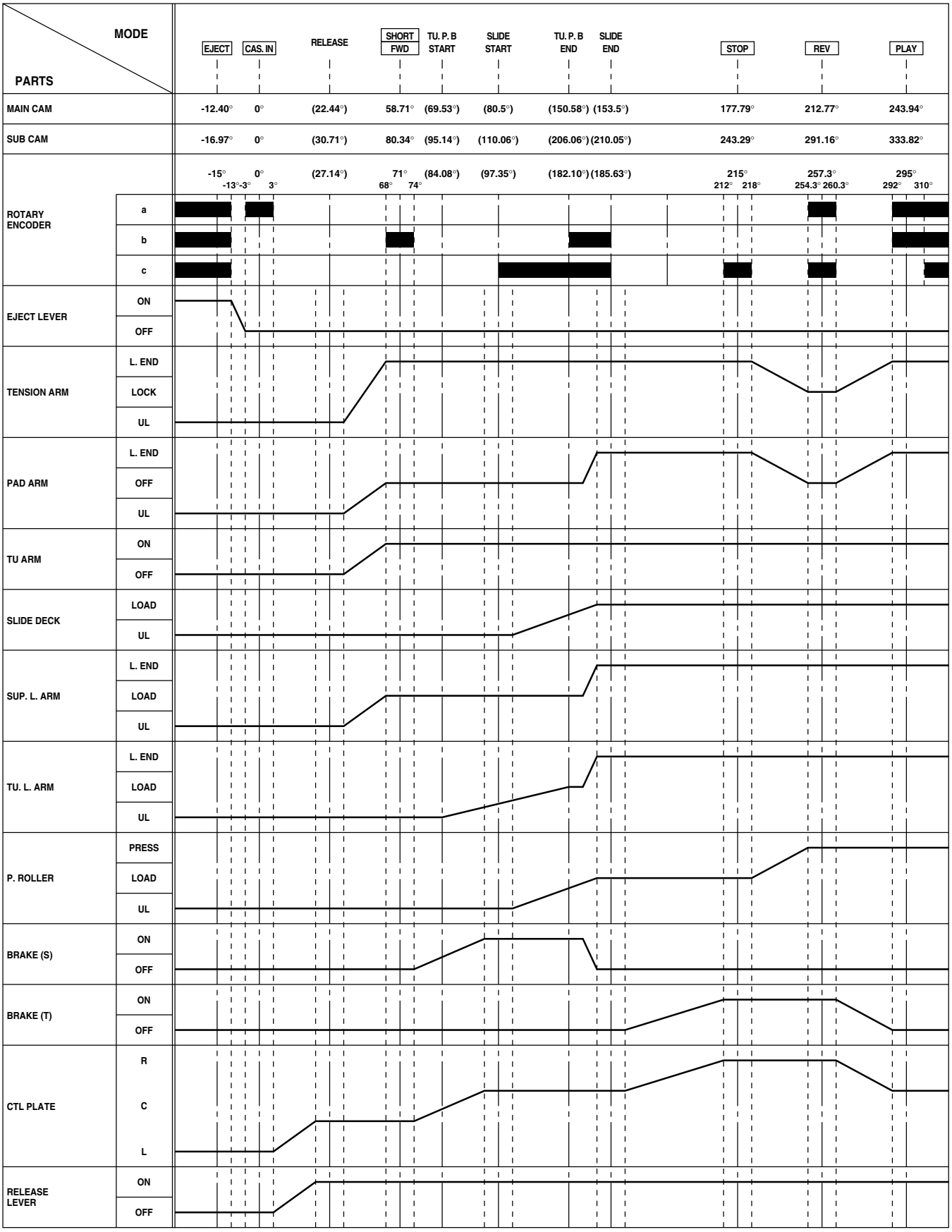


Table 2-3-1

2.4 DISASSEMBLING PROCEDURE TABLE

MARK: ★ After assembly, perform adjustments.

NO.	PART NAME		FIG.	POINT	NOTE	REMARKS
①	CASSETTE HOUSING ASSY	T	Fig.2-4-3	3(S①),(L①a)-(L①e)	NOTE①a,b,c,d	ADJUSTMENT
②	UPPER BASE ASSY	T	Fig.2-4-4	(S②),(L②a),(L②b)	NOTE②	
③	DRUM ASSY	T		(S③a),2(S③b)	NOTE③a,b	
④	REEL DISK ASSY(SUP)	T	Fig.2-4-5	(W④)	NOTE④	
⑤	REEL DISK ASSY(TU)	T		(W⑤)	NOTE⑤	
⑥	REEL COVER ASSY	T		2(W⑥),2(S⑥a),(S⑥b)	NOTE⑥	ADJUSTMENT
⑦	TENSION ARM ASSY	T	Fig.2-4-6	—	NOTE⑦	ADJUSTMENT / ★
⑧	SLANT POLE ARM ASSY	T		(P8)	NOTE⑧	ADJUSTMENT
⑨	TU ARM ASSY	T		—	NOTE⑨	ADJUSTMENT
⑩	SWING ARM ASSY	T		(S⑩)	NOTE⑩	ADJUSTMENT
⑪	SLIDE DECK ASSY	T	Fig.2-4-7a	2(S⑪a),(S⑪b),2(L⑪a), 2(L⑪b),(L⑪c)	NOTE⑪a,b	ADJUSTMENT / ★
⑫	PAD ARM ASSY	T	Fig.2-4-7b	(P⑫),(L⑫),(W⑫)	NOTE⑫	ADJUSTMENT / ★
⑬	SUP BRAKE ASSY	T		(P⑬),(L⑬),(S⑬)	NOTE⑬	ADJUSTMENT
⑭	TU BRAKE ASSY	T		(P⑭),(L⑭),(W⑭)	NOTE⑭	ADJUSTMENT
⑮	TENSION CTL LEVER ASSY	T	Fig.2-4-8	(W⑮)	NOTE⑮	ADJUSTMENT
⑯	CENTER GEAR	T		—	NOTE⑯	
⑰	PINCH ROLLER ARM F. ASSY	T		(W⑰)	NOTE⑰	
⑱	TENSION CTL PLATE ASSY	T		—	NOTE⑱	ADJUSTMENT
⑲	BRAKE CTL LEVER ASSY	T		—	NOTE⑲	ADJUSTMENT
⑳	MOTOR BRACKET ASSY	T	Fig.2-4-9	3(S⑳),(L⑳a),2(L⑳b)	NOTE⑳	ADJUSTMENT
㉑	GUIDE RAIL ASSY	T		2(W㉑),(S㉑),2(L㉑a),(L㉑b)	NOTE㉑	ADJUSTMENT
㉒	SLIDE LEVER 2 ASSY	T		—	NOTE㉒	ADJUSTMENT / ★
㉓	LOADING PLATE ASSY	T		(W㉓)	NOTE㉓	ADJUSTMENT
㉔	MODE GEAR	T		—	NOTE㉔	
㉕	EJECT LEVER	T		(W㉕)	NOTE㉕	ADJUSTMENT
㉖	BASE R ASSY	T	Fig.2-4-10	(S㉖a),(S㉖b),2(L㉖)	NOTE㉖	ADJUSTMENT
㉗	ROTARY ENCODER	T		2(S㉗)	NOTE㉗	PHASE ADJUSTMENT
㉘	GEAR COVER ASSY	T		(S㉘a),2(S㉘b)	—	
㉙	MAIN CAM ASSY	T		—	NOTE㉙	PHASE ADJUSTMENT
㉚	SLIDE ARM ASSY	T	Fig.2-4-11	—	NOTE㉚	ADJUSTMENT
㉛	CONNECT GEAR 2	T		—	NOTE㉛	
㉜	SUB CAM ASSY	T		(S㉜)	NOTE㉜	PHASE ADJUSTMENT
㉝	CONTROL ARM ASSY	T		—	NOTE㉝	ADJUSTMENT
㉞	REEL GEAR 1	T		—	NOTE㉞	
㉟ / ㊱	DRUM BASE ASSY/ CAPSTAN MOTOR	T	Fig.2-4-12	3(S㉟)	NOTE㉟a,b	ADJUSTMENT
㊱	CAPSTAN MOTOR	T		(S㊱)	NOTE㊱	ADJUSTMENT
㊲	MAIN DECK ASSY	T		—	—	

Table 2-4-1

< TOP VIEW >

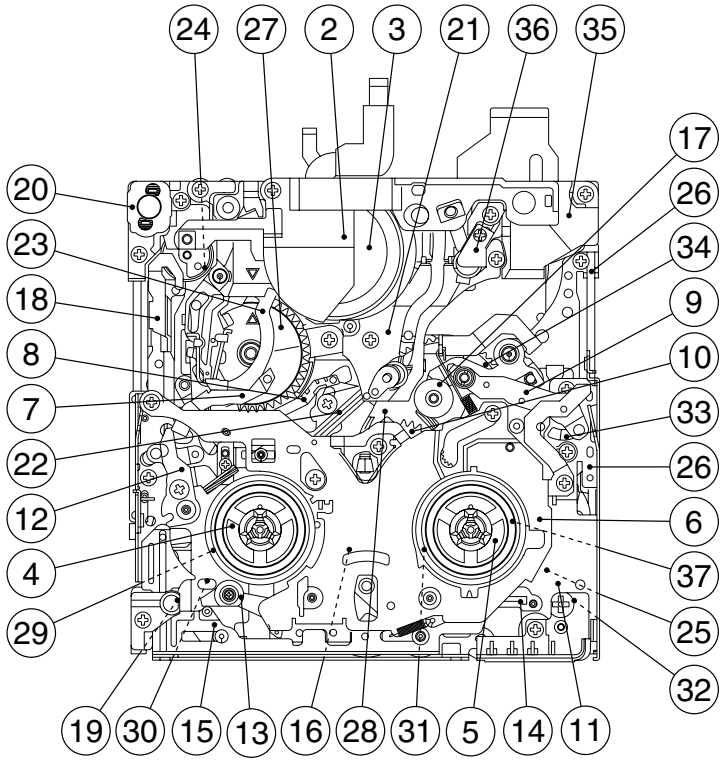


Fig. 2-4-1

< BOTTOM VIEW >

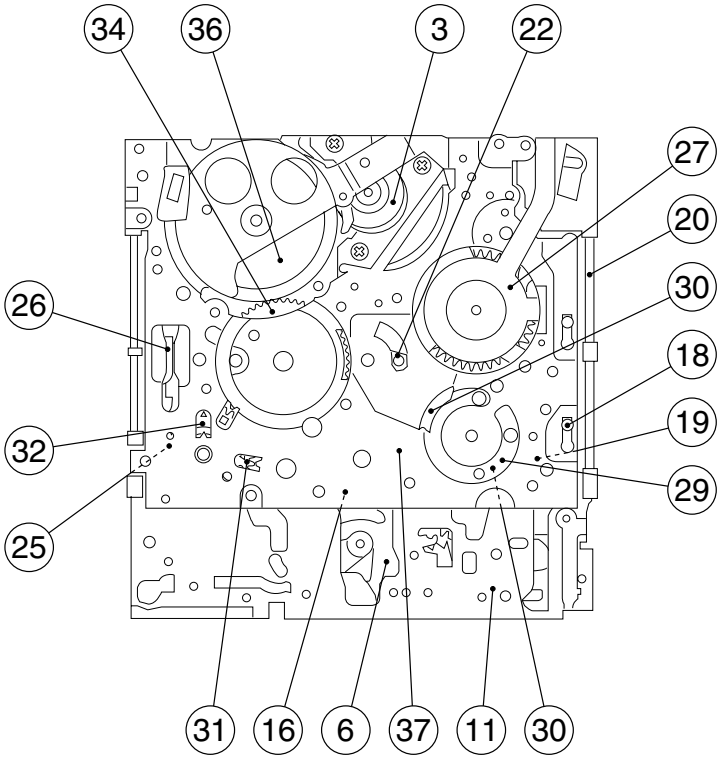


Fig. 2-4-2

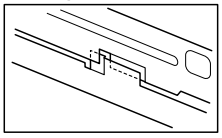
2.4.1 Disassembly/assembly

1. ① CASSETTE HOUSING ASSY

NOTE①a:
Be careful not to damage any of the parts during work.

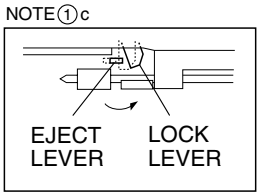
NOTE①b:
Special care is required in mounting.

NOTE①b



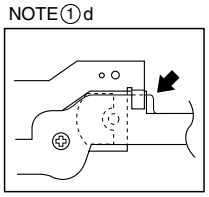
NOTE①c:
When mounting, the CASSETTE HOUSING ASSY should be attached in the Eject status. Pay heed to the positions of the LOCK LEVER and EJECT LEVER during mounting.

NOTE①c



NOTE①d:
When mounting, be sure to locate the FPC in the gap.

NOTE①d



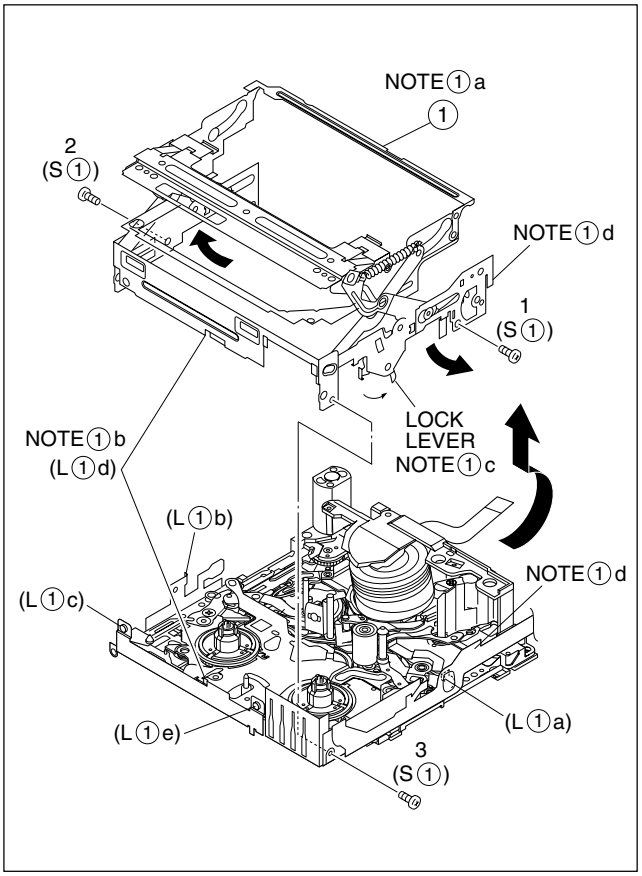
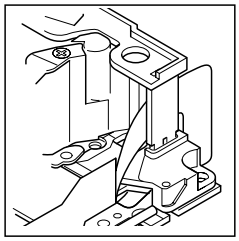


Fig. 2-4-3

2. ② UPPER BASE ASSY
   ③ DRUM ASSY

NOTE②:
When mounting, be sure to insert the FPC reinforcing sheet.

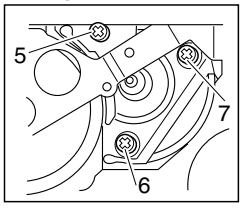
NOTE②



NOTE③a:
Be mindful of scratches or damage during work.

NOTE③b:
Be careful not to attach screws incorrectly.

NOTE③b



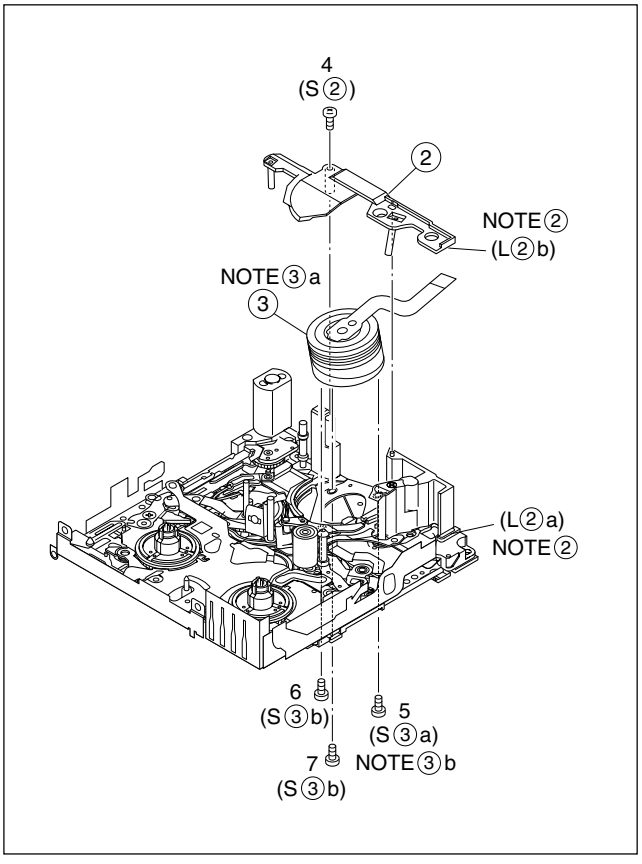
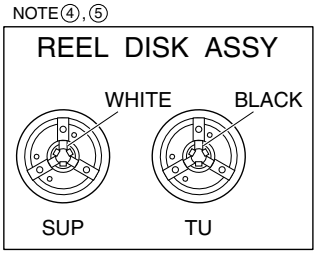


Fig. 2-4-4

3. ④ REEL DISK ASSY(SUP)
   ⑤ REEL DISK ASSY(TU)
   ⑥ REEL COVER ASSY

NOTE④:
Be careful not to attach the REEL DISK wrongly. The Supply side can be identified by the white color at the center.

NOTE④,⑤

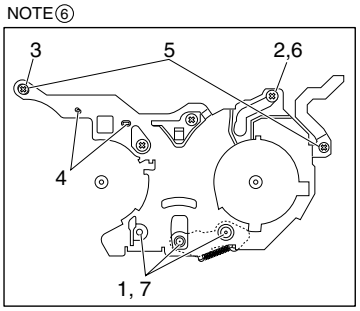


NOTE⑤:
Be careful not to attach the REEL DISK wrongly. The Take-up side can be identified by the black color at the center.

NOTE⑥:
Perform the following steps for mounting.

1. Align the 2 holes with the pins.
2. Attach the PINCH ROLLER ARM ASSY by aligning the positions.
3. Attach the SUB DECK ASSY by aligning the positions.
4. Check that the parts below them are located in the correct positions.
5. Tighten the 2 screws.
6. Tighten the screw.
7. Attach the 2 SLIT WASHER parts.

NOTE⑥



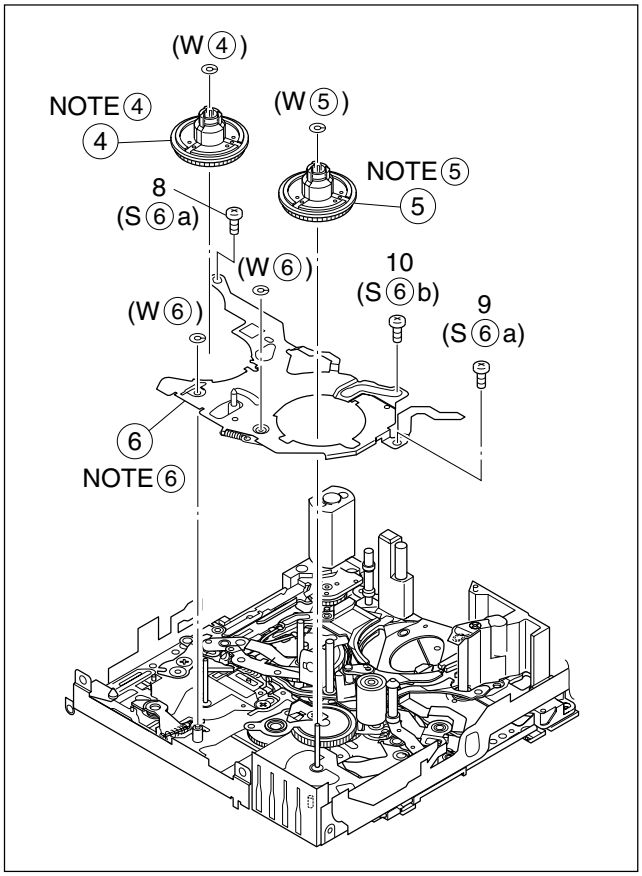
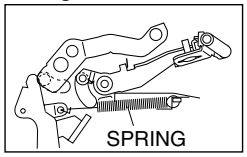


Fig. 2-4-5

4. ⑦ TENSION ARM ASSY
   ⑧ SLANT POLE ARM ASSY
   ⑨ TU ARM ASSY
   ⑩ SWING ARM ASSY

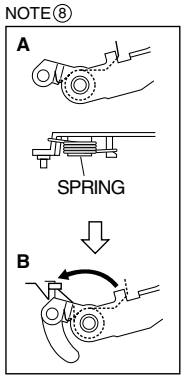
NOTE⑦:
When detaching, remove the spring of the ⑫ PAD ARM ASSY in advance.
Pay attention to the attachment position.

NOTE⑦



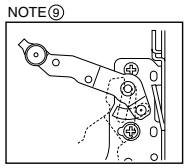
NOTE⑧:
When mounting the SLANT POLE ARM ASSY, hook the spring onto the lug as in diagram A, and fit the combination onto the SLIDE DECK ASSY. After fitting, hook the spring onto the lug of the SLIDE DECK ASSY as in diagram B.
Be careful not to lose the spring.

NOTE⑧



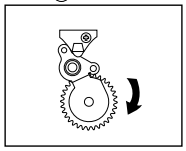
NOTE⑨:
Pay attention to the mounting position.

NOTE⑨



NOTE⑩:
When detaching, remove the screw then remove the SWING ARM ASSY by pulling it up and turning it.

NOTE⑩



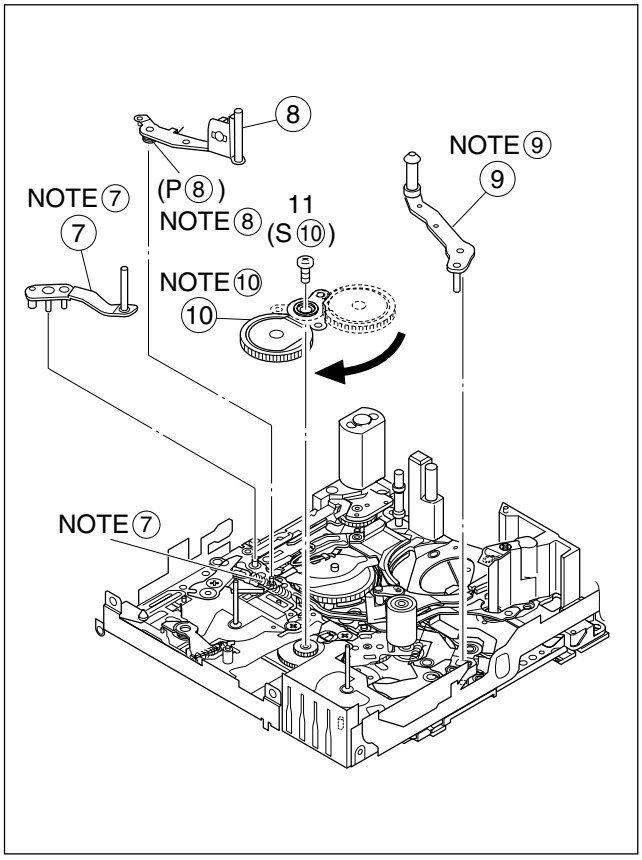


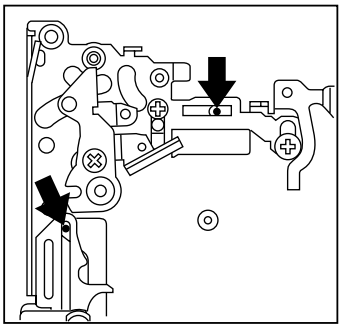
Fig. 2-4-6

5. ⑪ SLIDE DECK ASSY

NOTE⑪a:
Each of the parts on the SLIDE DECK ASSY can be replaced separately.
When detaching the assembly, if there is no need to replace any of its parts, remove the SLIDE DECK ASSY as it is.

NOTE⑪b:
When mounting, pay attention to the positions of the ㉒ SLIDE LEVER (2) studs and the ⑲ BRAKE CONTROL LEVER ASSY.
When mounting, position the CONTROL PLATE on the left side.
Pay attention to the position of the SLIDE GUIDE PLATE during mounting.

NOTE⑪b



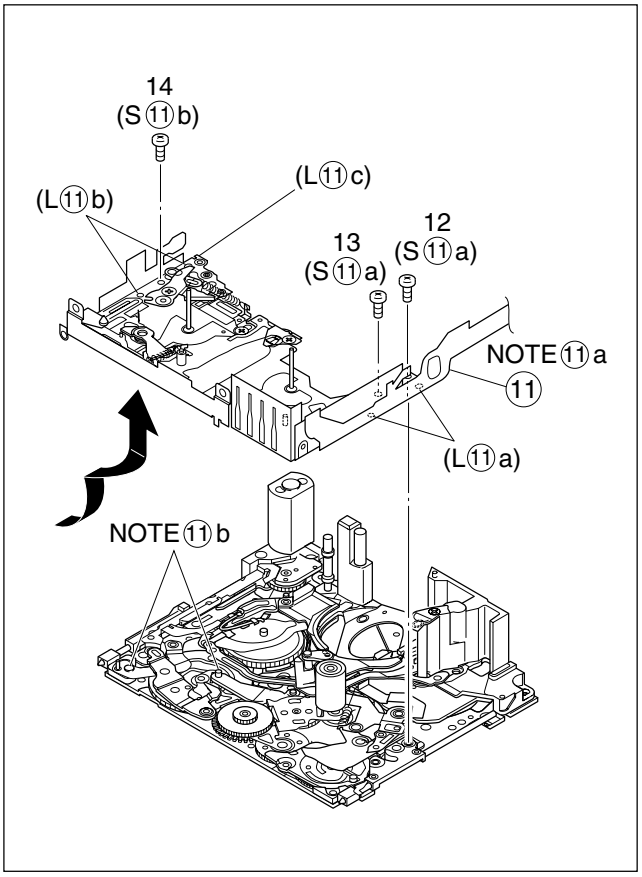


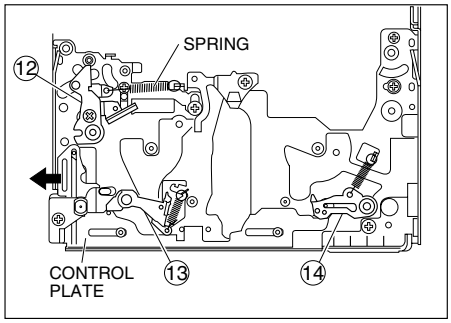
Fig. 2-4-7a

6. ⑫ PAD ARM ASSY
⑬ SUP BRAKE ASSY
⑭ TU BRAKE ASSY

NOTE⑫:
The spring may have already been disengaged when the ⑧ SLANT POLE ARM ASSY was removed.

NOTES⑭:
When mounting, pay attention to the correct positioning.
Mount the CONTROL PLATE by moving it fully toward the left side.

NOTE⑫⑬⑭



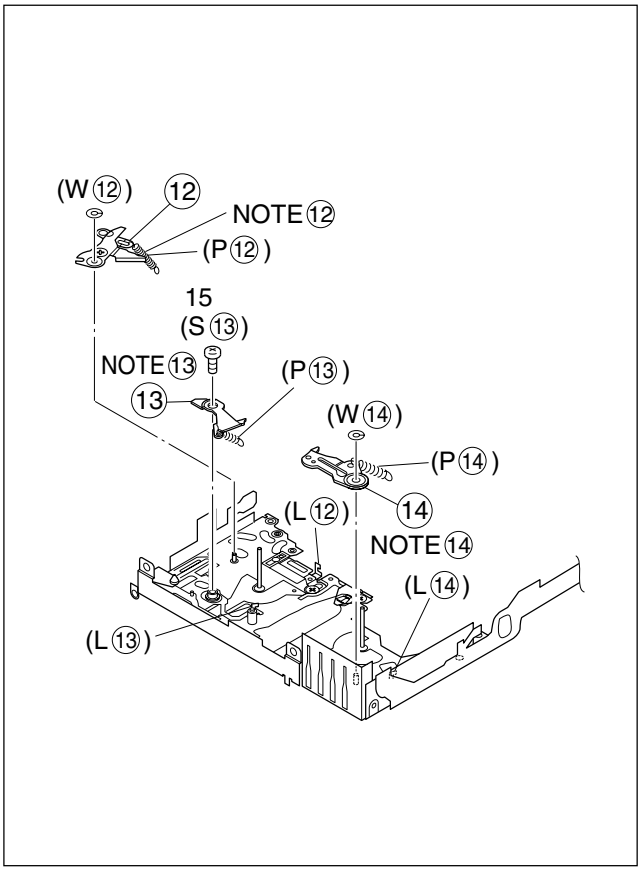
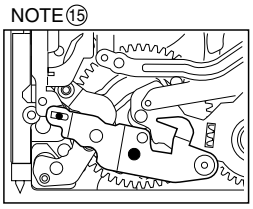


Fig. 2-4-7b

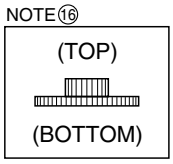
7. ⑮ TENSION CTL LEVER ASSY
   ⑯ CENTER GEAR
   ⑰ PINCH ROLLER ARM F. ASSY
   ⑱ TENSION CTL PLATE ASSY
   ⑲ BRAKE CTL LEVER ASSY

NOTES⑮/⑯:
When mounting, pay attention to the correct positioning.

NOTE⑮

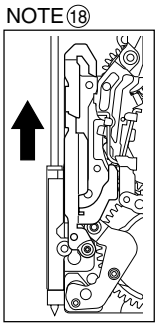


NOTE⑯

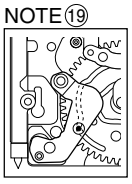


NOTES⑱/⑲:
When mounting, pay attention to the correct positioning.

NOTE⑱

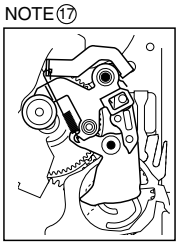


NOTE⑲



NOTE⑰:
Take care against grease attachment during work.

NOTE⑰



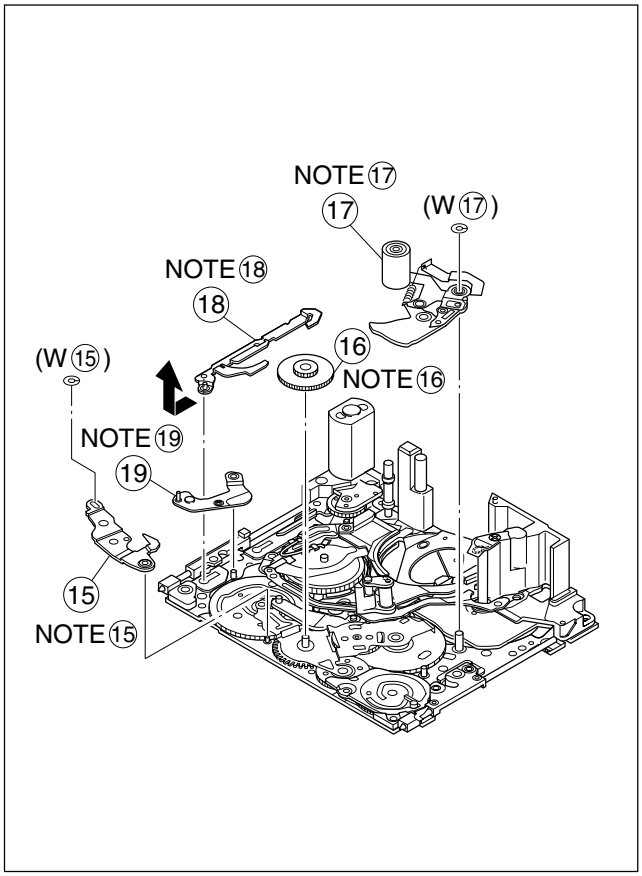
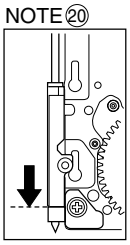


Fig. 2-4-8

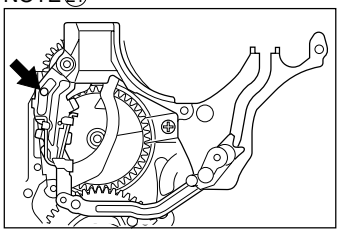
8. ⑳ MOTOR BRACKET ASSY
   ㉑ GUIDE RAIL ASSY
   ㉒ SLIDE LEVER 2 ASSY
   ㉓ LOADING PLATE ASSY
   ㉔ MODE GEAR
   ㉕ EJECT LEVER

NOTE⑳



NOTE⑳:
When mounting, pay attention to the positioning of the sliding parts.

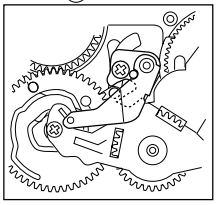
NOTE㉑



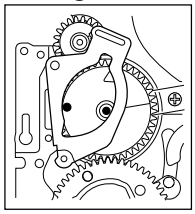
NOTE㉑:
When mounting, take care that no part is allowed to float or rattle.

NOTES㉒/㉓/㉔/㉕:
When mounting, pay attention to the correct positioning.

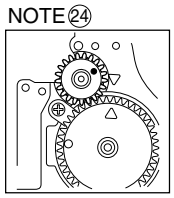
NOTE㉒



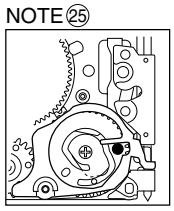
NOTE㉓



NOTE㉔



NOTE㉕



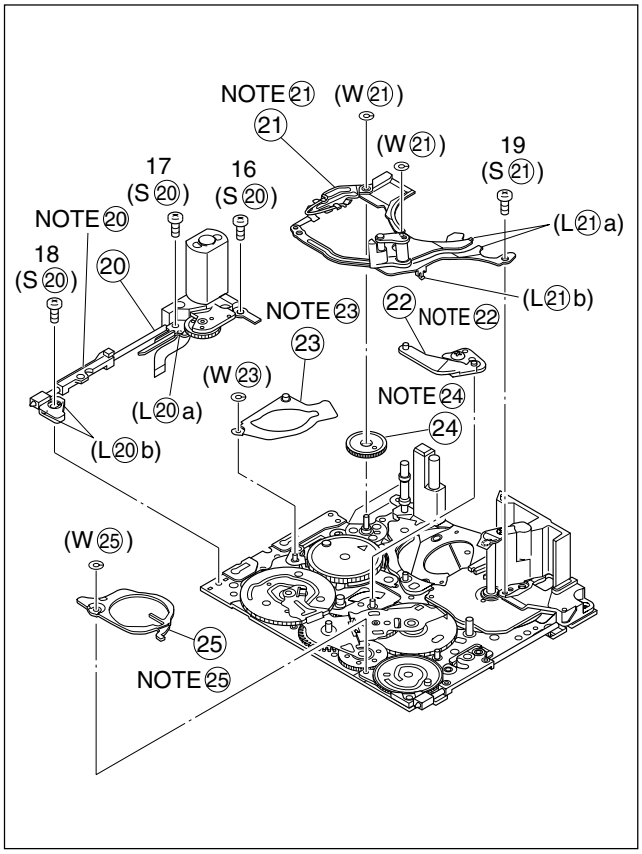
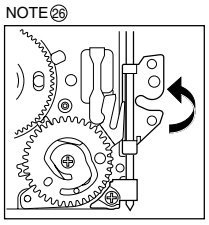


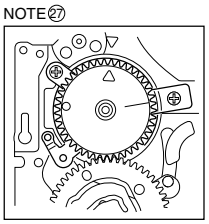
Fig. 2-4-9

9. ㉖ BASE R ASSY
㉗ ROTARY ENCODER
㉘ GEAR COVER ASSY
㉙ MAIN CAM ASSY

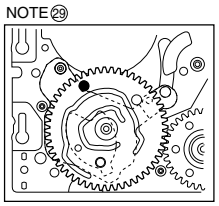
NOTE㉖:
When mounting, fold the sliding part to the inner side.



NOTE㉗:
When mounting, pay attention to the correct positioning and the FPC layout.



NOTE㉙:
When mounting, pay attention to the correct positioning.



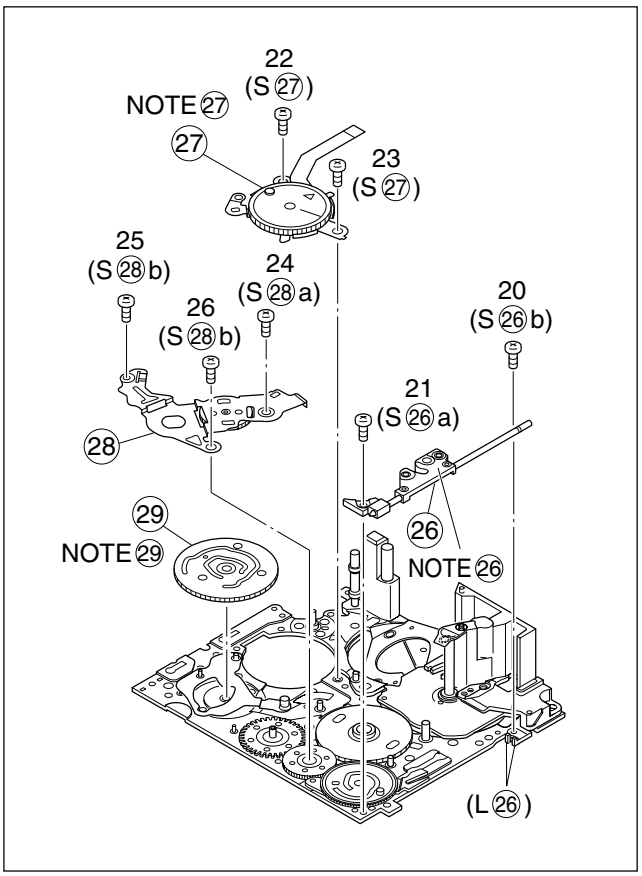
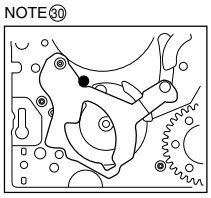


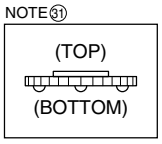
Fig. 2-4-10

10. ㉚ SLIDE ARM ASSY
㉛ CONNECT GEAR 2
㉜ SUB CAM ASSY
㉝ CONTROL ARM ASSY
㉞ REEL GEAR 1

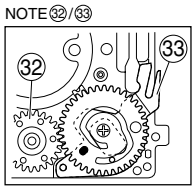
NOTE㉚:
When mounting, pay attention to the correct positioning and the FPC layout.

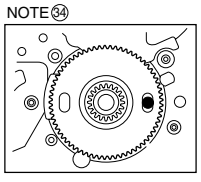


NOTE㉛:
When mounting, pay attention to the position of the front and back.



NOTES㉜/㉝/㉞:
When mounting, pay attention to the correct positioning and the FPC layout.





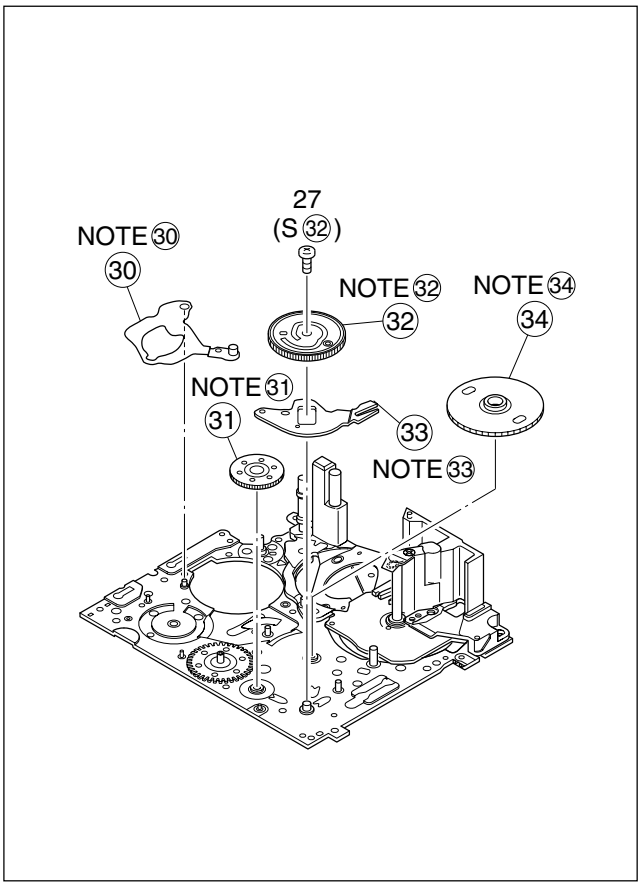
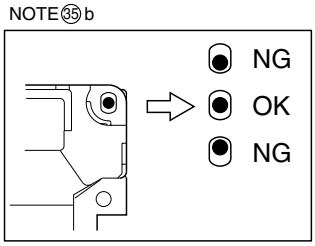


Fig. 2-4-11

11. ㉟ DRUM BASE ASSY
㊱ CAPSTAN MOTOR
㊲ MAIN DECK ASSY

NOTES ㉟ a /㊱:
When detaching, remove them together and then separate ㊱ from ㉟a.

NOTE ㉟ b:
When mounting, attach the DRUM BASE ASSY so that the screw hole is located at the center of the ellipse.



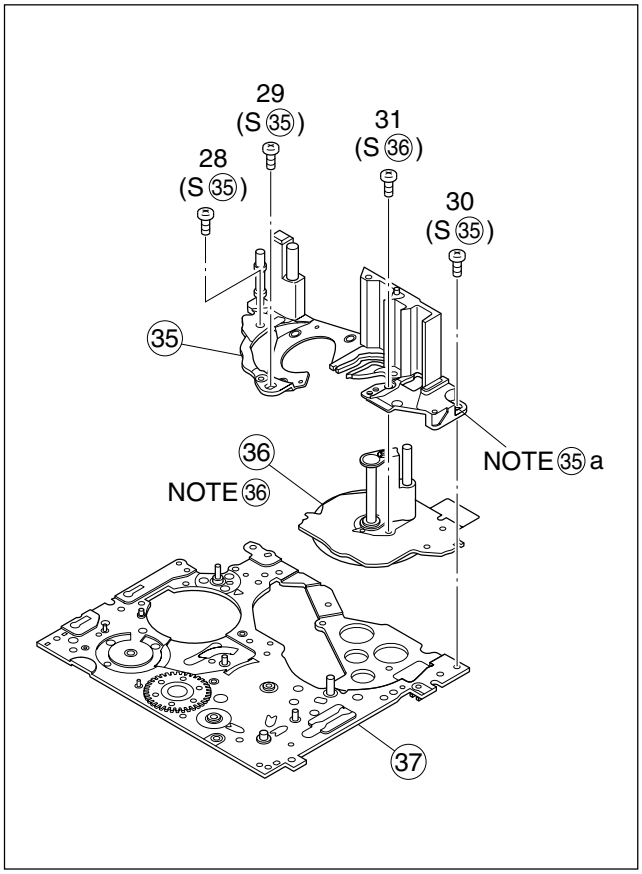


Fig. 2-4-12

2.4.2 List of procedures for disassembly

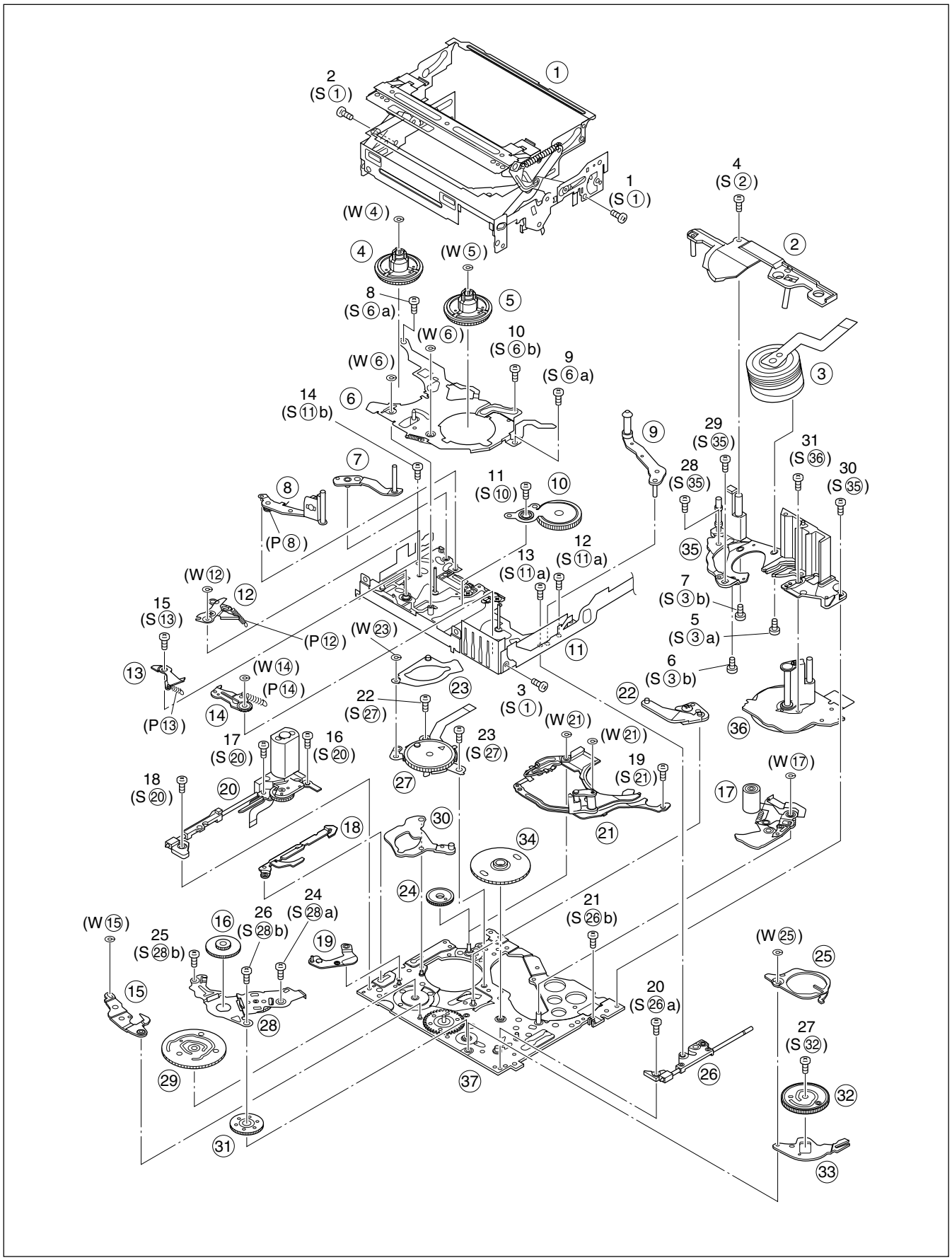
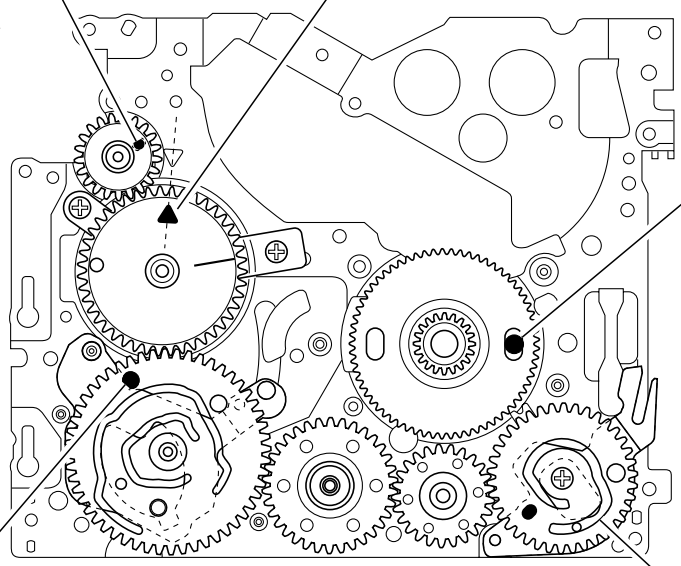


Fig. 2-4-13

2.5 CHECKUP AND ADJUSTMENT OF MECHANISM PHASE



(24) MODE GEAR
Align the MODE GEAR with the Main Deck Assembly hole.

Note:
The MODE GEAR may be displaced during the mechanism operation, however it can be checked from the rear and realigned during manual assembly.

(27) ROTARY ENCODER
Mount the ROTARY ENCODER by aligning its mark (△) and the mark (▽) of the Main Deck Assembly.

Note:
Be careful when handling the FPC during mounting.

(34) REEL GEAR 1
Align the REEL GEAR 1 with the Main Deck Assembly hole.

Note:
The REEL GEAR 1 may be displaced during mechanism operation, however this can be checked from the rear and realigned during manual assembly.

(29) MAIN CAM ASSY/ (30) SLIDE ARM ASSY
When mounting the SLIDE ARM ASSY align it with the Main Deck Assembly and MAIN CAM ASSY holes.

Note:
During the mounting procedure, make sure that the (32). SUB CAM ASSY is in the correct mounting position.

(32) SUB CAM ASSY/ (33) CONTROL ARM ASSY
Mount the SUB CAM ASSY hole to align with the CONTROL ARM ASSY and Main Deck Assembly holes and then tighten them all together with a screw.
The screw tightening torque should be 0.039 N•m (0.4 kgf•cm)

Note:
When mounting it, make sure that the (29) MAIN CAM ASSY is in the correct mounting position.

Fig. 2-5-1

2.6 MECHANISM ADJUSTMENTS

2.6.1 Adjustment of the slide guide plate

Use Fig. 2-6-1 as the reference unless otherwise specified.

1. Set the PLAY mode.
   See Fig. 2-3-8.
2. Loosen the screws (Ⓐ,Ⓑ).
3. With the Main Deck and Slide Deck Assemblies pushed into the unit, tighten the screws (Ⓐ,Ⓑ) while applying pressure to the stud (shaft) on the Slide Guide plate.
   The pressure applied should be enough to enable utilization of the rebounding force of the springs.
   The tightening torque should be 0.069 N•m (0.7 kgf•cm).
4. Check the operation.
   Repeat unloading and loading several times and make sure that these operations can be performed smoothly without producing rattles.

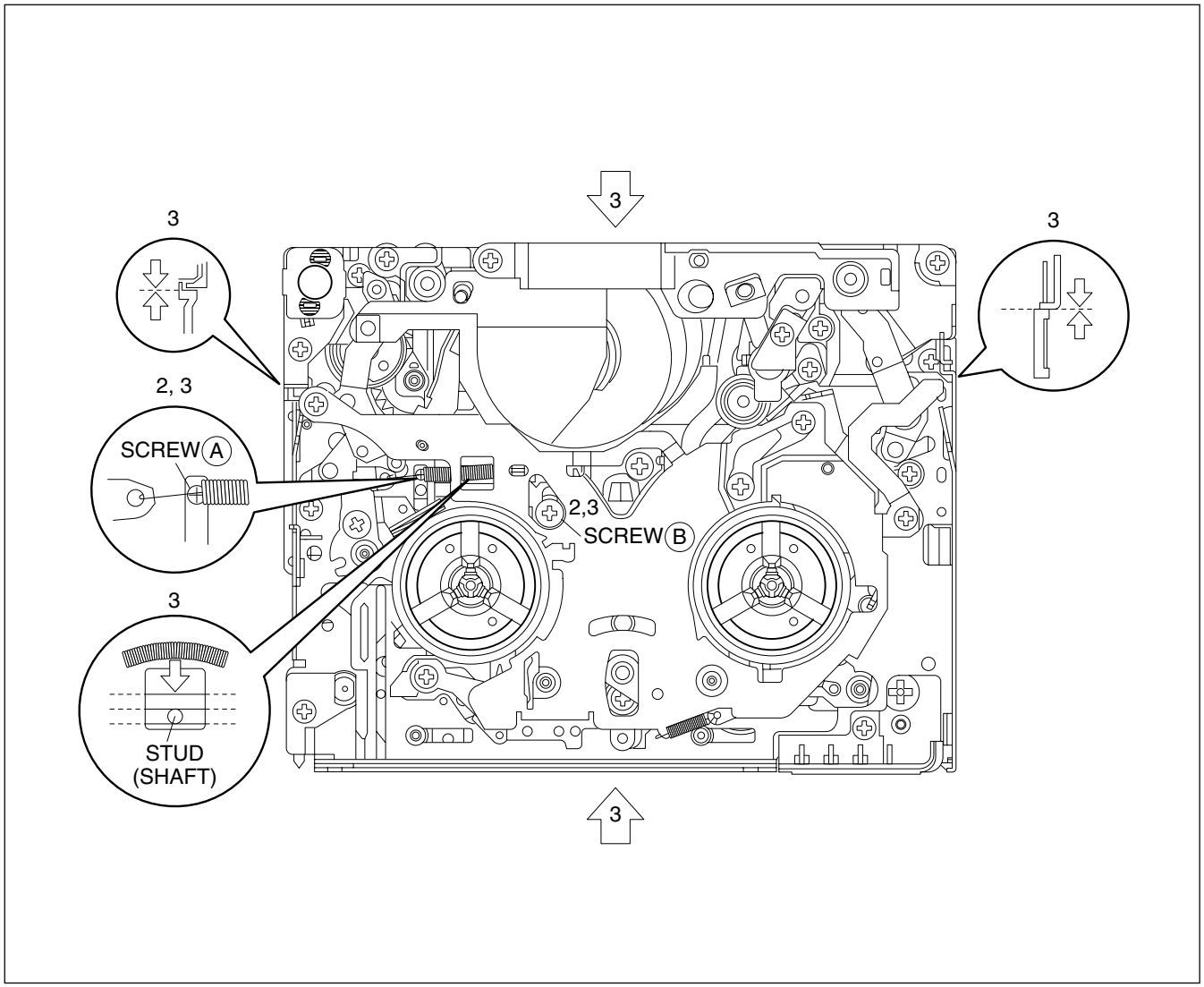


Fig. 2-6-1

2.6.2 Adjustment of the Tension Arm and Pad Arm Assemblies

Use Fig. 2-6-2 as the reference unless otherwise specified.

1. Set the PLAY mode.
   Se Fig. 2-3-8.
2. Loosen the screw Ⓐ.
3. With the take-up side at the bottom, align the extreme end of the Tension Arm Assembly with the crossed grooves on the screw Ⓑ that retains the Loading Motor Assembly and then tighten the screw Ⓐ.
   The tightening torque should be 0.069 N•m (0.7 kgf•cm).
4. Check the operation.
   Repeat unloading and loading several times and make sure that the Tension Arm Assembly is located within the normal range.

   Note : *With the above checking method, a Torque Meter is not used.*
   When a Torque meter is used, the following are the reference values:

   Back Tension : 2.0 to 6.0 g•cm
   Play Torque : 8.3 to 12.5 g•cm

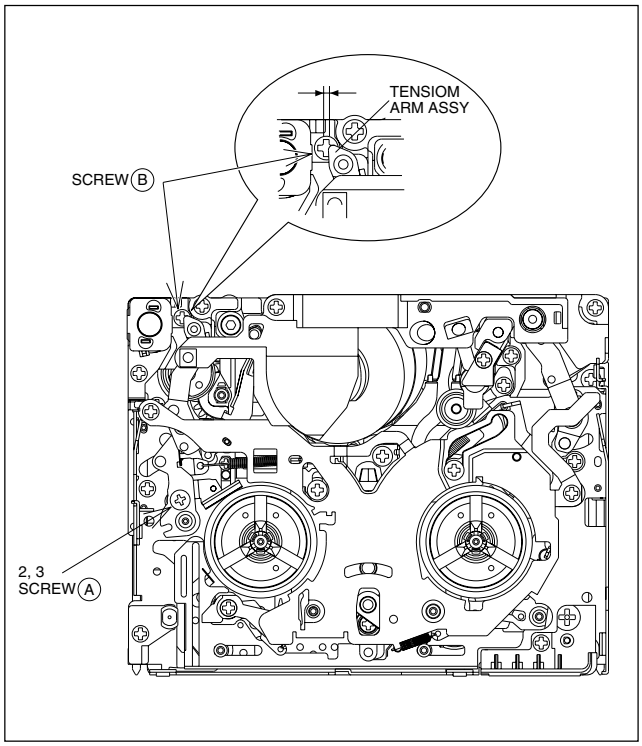


Fig. 2-6-2

2.6.3 Adjustment of the Slide Lever 2

Use Fig. 2-6-3 as the reference unless otherwise specified.

1. Set the C IN mode.
   See Fig. 2-3-4.
2. Loosen the screw Ⓐ.
3. Set the Main Deck and Slide Deck Assemblies apart so that they do not rattle, then tighten the screw Ⓐ by screwing it fully toward the Drum Assembly.
   The tightening torque should be 0.069 N•m (0.7 kgf•cm).
4. Check the operation.
   Repeat unloading and loading several times and make sure that these operations can be performed smoothly without producing rattles.

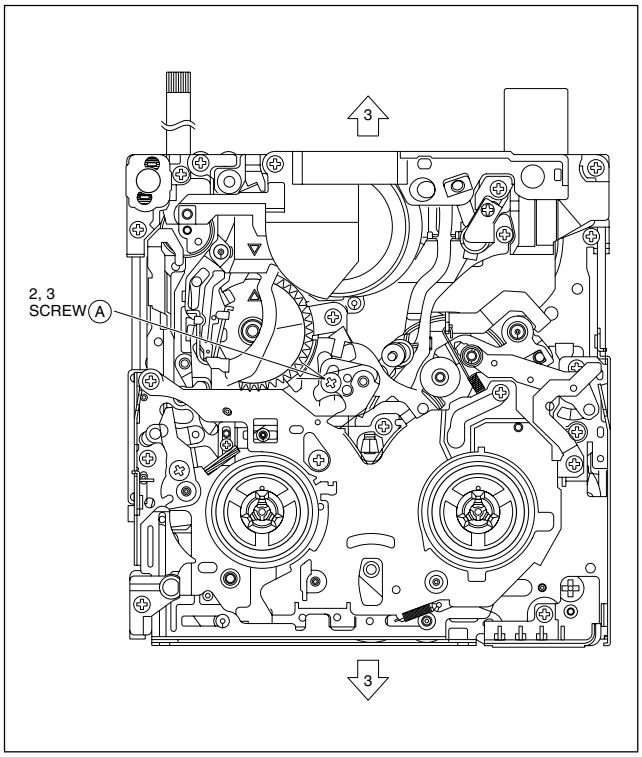


Fig. 2-6-3

2.7 SERVICE NOTE

Use the following chart to manage mechanism parts that are removed for disassembling the mechanism.

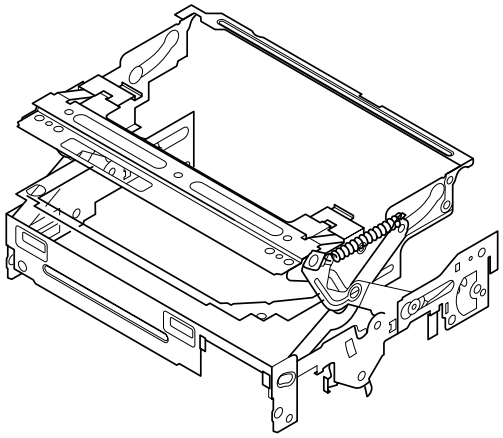
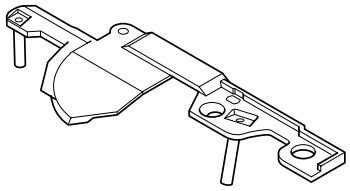
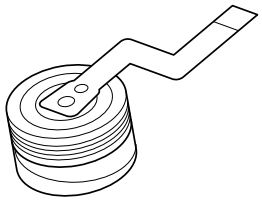
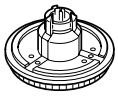
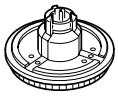
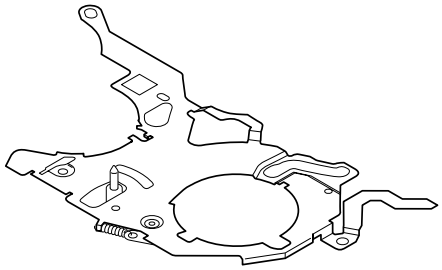
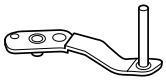
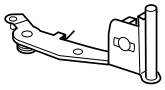
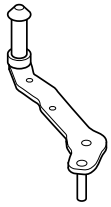
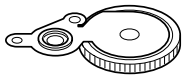
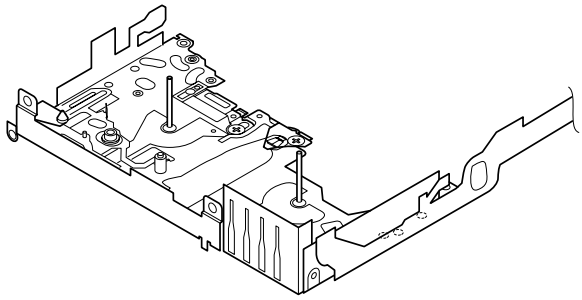
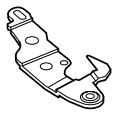
Fig.					
2-14-3	(1) CASSETTE HOUSING ASSY 		Fig. 2-14-4	(2) UPPER BASE ASSY 	
Fig. 2-14-4	(3) DRUM ASSY 		Fig. 2-14-5	(4) REEL DISK ASSY(SUP)  (5) REEL DISK ASSY(TU) 	(6) REEL COVER ASSY 
Fig. 2-14-6	(7) TENSION ARM ASSY 	(8) SLANT POLE ARM ASSY 	(9) TU ARM ASSY 	(10) SWING ARM ASSY 	
Fig. 2-14-7a	(11) SLIDE DECK ASSY 		Fig. 2-14-7b	(12) PAD ARM ASSY	(13) SUP BRAKE ASSY (14) TU BRAKE ASSY

Table 2-7-1a

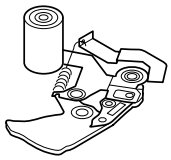
Fig. 2-4-8

15 TENSION CTL LEVER ASSY

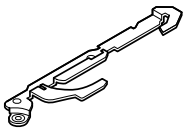


16 CENTER GEAR

17 PINCH ROLLER ARM F. ASSY



18 TENSION CTL PLATE ASSY



19 BRAKE CTL LEVER ASSY

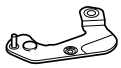
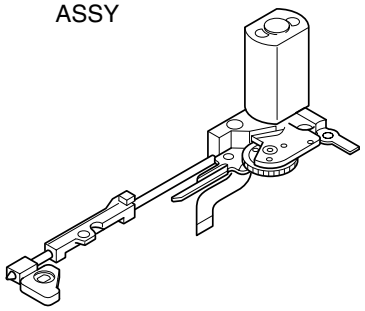
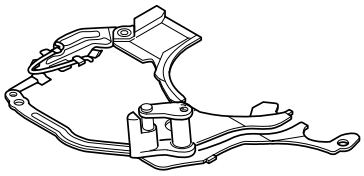


Fig. 2-4-9

20 MOTOR BRACKET ASSY



21 GUIDE RAIL ASSY



22 SLIDE LEVER 2 ASSY

23 LOADING PLATE ASSY

24 MODE GEAR

25 EJECT LEVER

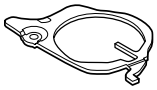
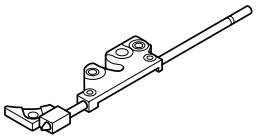
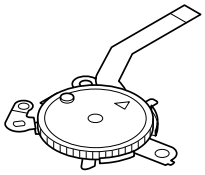


Fig. 2-4-10

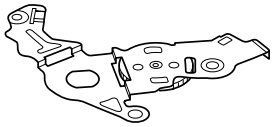
26 BASE R ASSY



27 ROTARY ENCODER



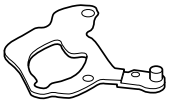
28 GEAR COVER ASSY



29 MAIN CAM ASSY

Fig. 2-4-11

30 SLIDE ARM ASSY



31 CONNECT GEAR 2

32 SUB CAM ASSY

33 CONTROL ARM ASSY

34 REEL GEAR 1

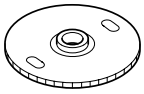
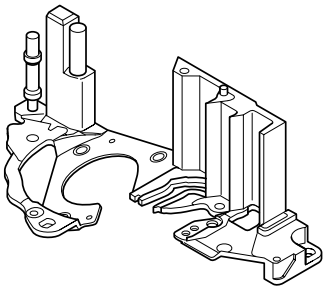
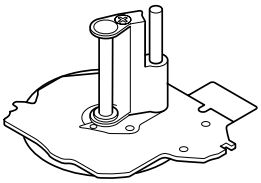


Fig. 2-4-12

35 DRUM BASE ASSY



36 CAPSTAN MOTOR



37 MAIN DECK ASSY

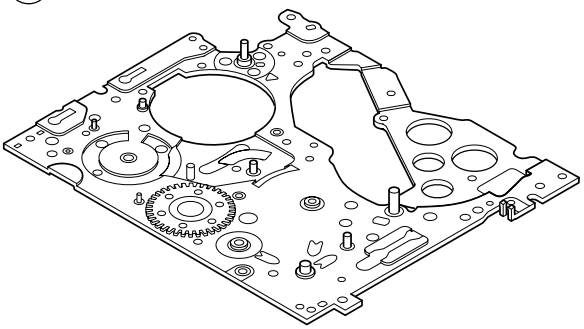


Table 2-7-1b

2.8 JIG CONNECTOR CABLE CONNECTION

Remove one screw (1) first and the cover (JIG) next.

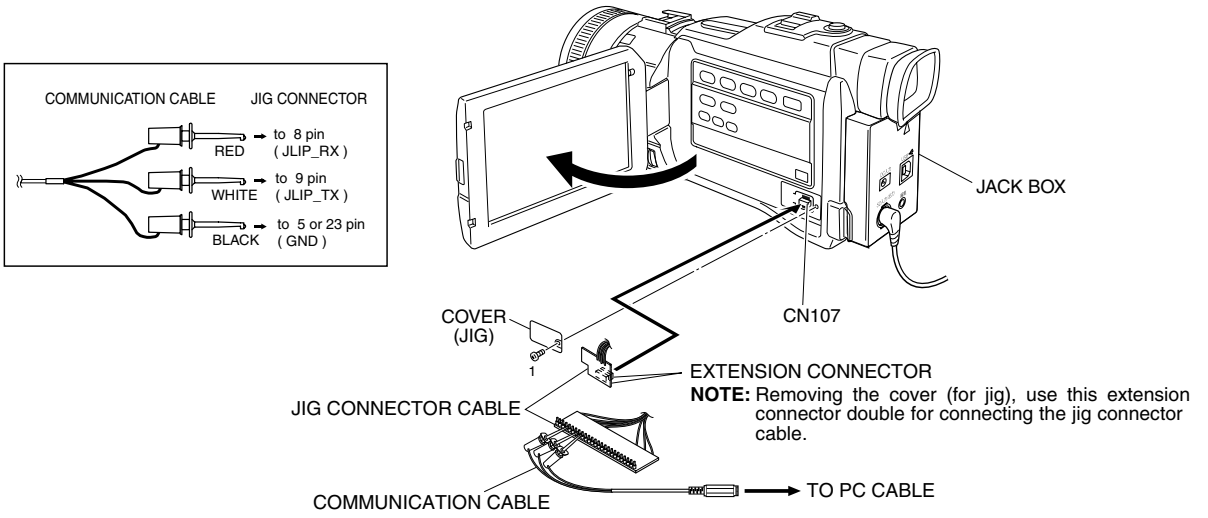


Fig. 2-8-1

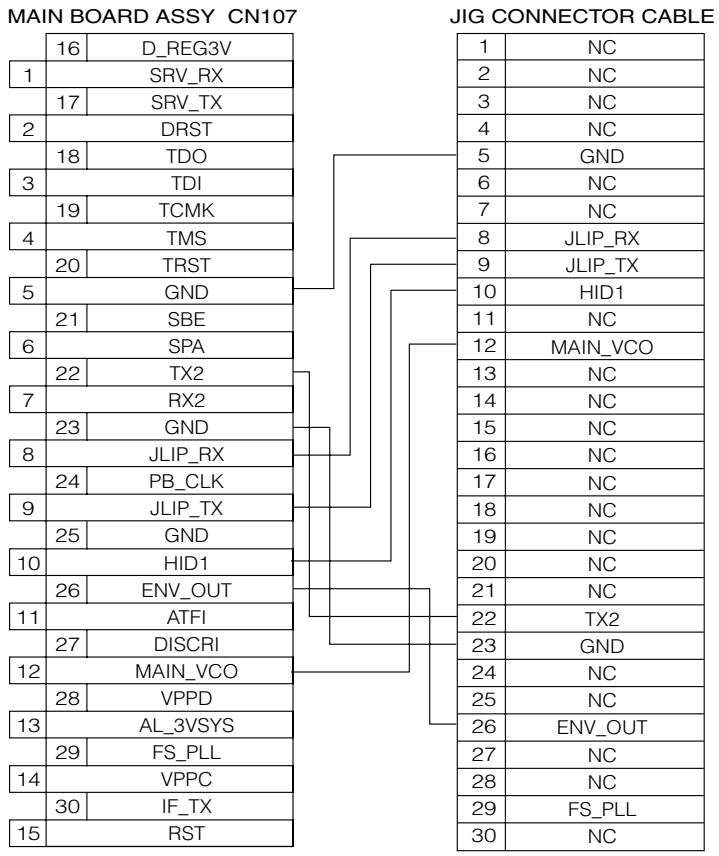


Fig. 2-8-2

2.8.1 Tape pattern check

(1) Play back the compatibility adjustment tape.

(2) While triggering the MAIN CN107-10PIN (HID1), observe the waveform of CN107-26PIN (ENV_OUT).

(3) Confirm that the waveform is free from remarkable level-down, and entirely parallel and straight.
Moreover, perform the following adjustment as required.

(4) In case any level-down is observed on the left hand side, straighten the level by turning the guide roller of the pole base assembly (supply).
In case any level-down is observed on the right hand side, however, straighten the level by turning the guide roller of the pole base assembly (Take-up).

(5) After adjustment, try the unloading motion once, and confirm that the waveform is flat (straight) when the tape has been played back again.
Moreover, perform readjustment as required.

(6) When the recording has been played back again, play back the self-recording to confirm that the waveform is flat.

Note:
When an adjustment is performed with the lower case cover attached, first slide the two covers (cassette and cassette rear) open and then perform the compatibility adjustment. Be sure not to damage the covers when sliding them open to make an adjustment because they must be re-positioned after completing the adjustment.

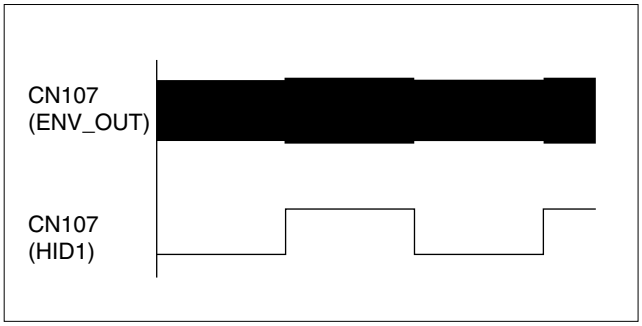


Fig. 2-8-3

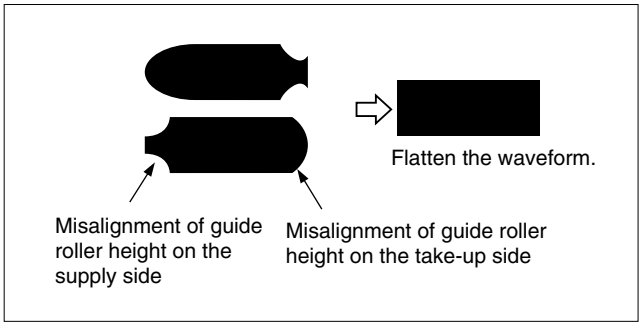

Flatten the waveform.
Misalignment of guide roller height on the supply side
Misalignment of guide roller height on the take-up side

Fig. 2-8-4

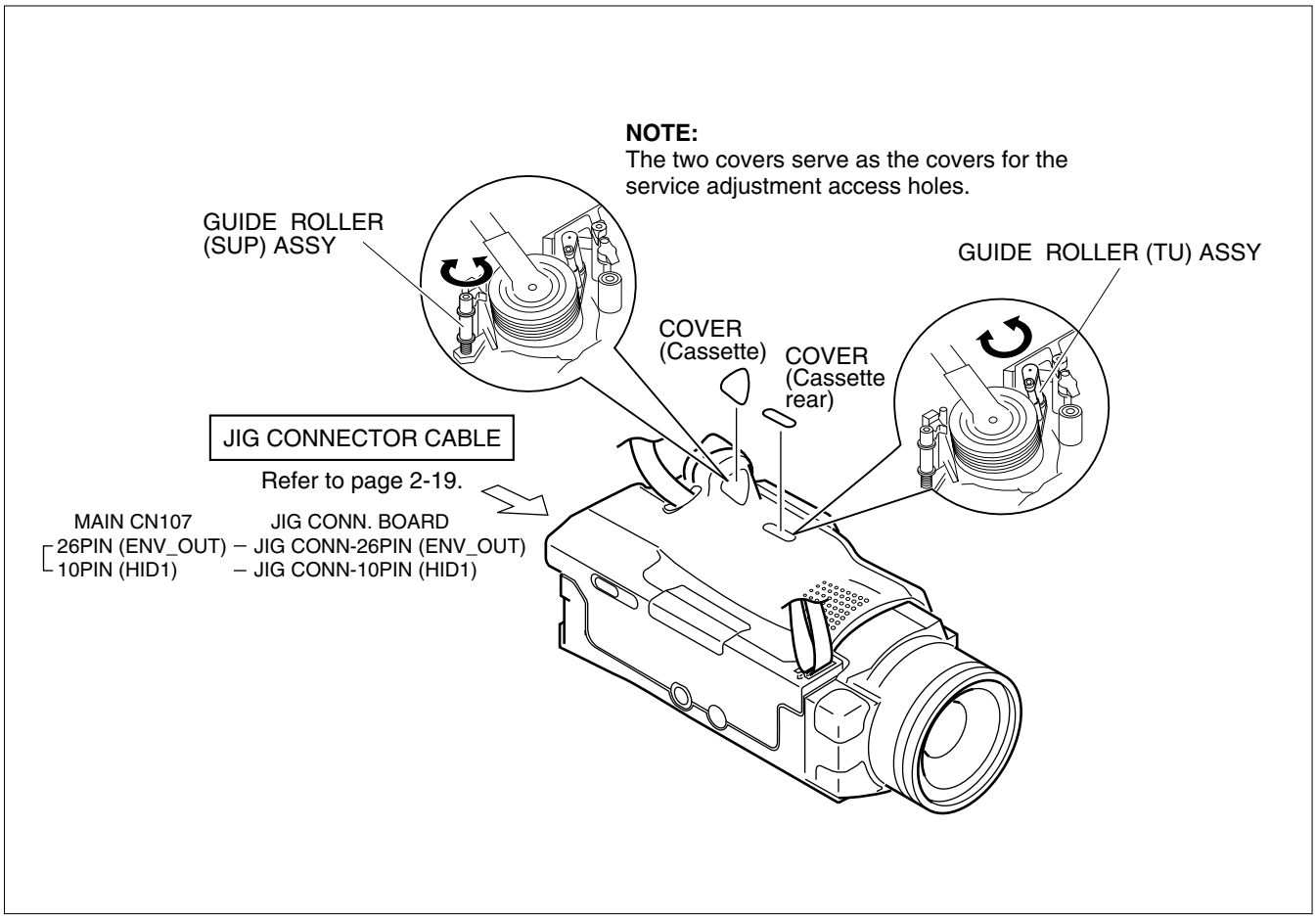

NOTE:
The two covers serve as the covers for the service adjustment access holes.
GUIDE ROLLER (SUP) ASSY
GUIDE ROLLER (TU) ASSY
COVER (Cassette)
COVER (Cassette rear)
JIG CONNECTOR CABLE
Refer to page 2-19.
MAIN CN107
26PIN (ENV_OUT) – JIG CONN. BOARD JIG CONN-26PIN (ENV_OUT)
10PIN (HID1) – JIG CONN-10PIN (HID1)

Fig. 2-8-5

SECTION 3
ELECTRICAL ADJUSTMENT

3.1 PRECAUTION

1. Precaution

Both the camera and deck sections of this model needs a personal computer for adjustment except simple adjustment with potentiometers. If some of the following parts is replaced for repair or other reason, the repaired set must be adjusted with a personal computer.

- OP block
- E^2PROM (IC1003 of MAIN board)
- MONITOR
- E^2PROM (IC7302 of MONITOR board)

In the event of malfunction with electrical circuits, trouble-shooting with the aid of proper test instruments most be done first, and then commence necessary repair, replacement and adjustment, etc.

1. In case of wiring to chip test points for measurement, use IC clips, etc. to avoid any stress.
2. In the following work, use the patch cords as required. For details of the patch cords, see the “4.1 BOARD INTERCONNECTIONS” (SECTION 4, CHART AND DIAGRAM).
3. Shortcircuit between operation un it and DECK chassis.

2. Required test equipment

1. Color TV monitor.
2. AC power adapter/charger
3. Oscilloscope (dual-trace type, observable 100 MHz or higher frequency)

Note : *It is recommended to use one observable 300 MHz or higher frequency.*

4. Digital voltmeter
5. Frequency counter (with threshold level adjuster)
6. Personal computer

3. Tools required for adjustments

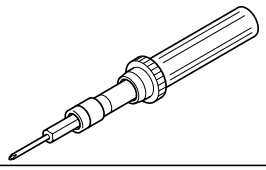
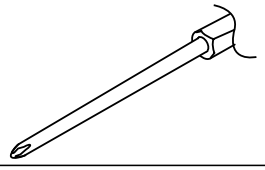
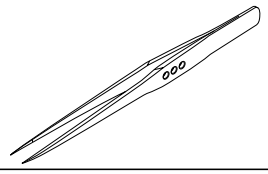
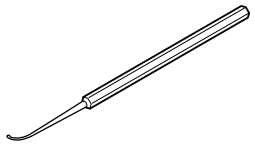
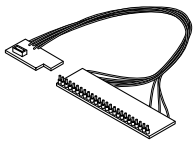
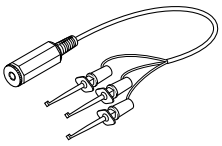
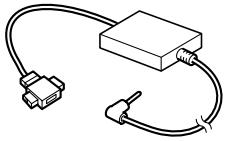
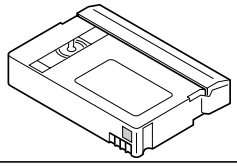
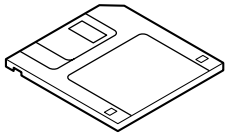
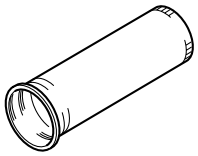
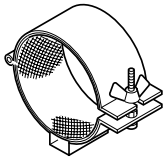
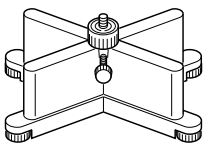
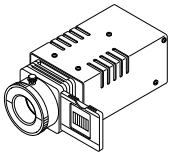
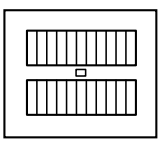
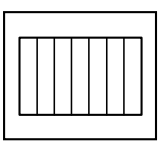
1	Torque driver YTU94088	2	Bit YTU94088-003
			
3	Tweezers P-895	4	Chip IC replacement Jig PTS40844-2
			
5	Jig connector cable YTU93106B	6	Extension connector YTU94145C-30
			
7	Communication cable YTU93107A	8	PC cable QAM0099-002
			
9	Alignment tape MC-2	10	Service support system YTU94057-55
			
11	INF adjustment lens YTU92001B	12	INF adjustment lens holder YTU94087
			
13	Camera stand YTU93079	14	Light box assembly YTU93096A
			
15	Gray scale chart YTU94133A	16	Color bar chart YTU94133C
			

Table 3-1-1

1. **Torque driver**
   Be sure to use to fastening the mechanism and exterior parts because those parts must strictly be controlled for tightening torque.

2. **Bit**
   This bit is slightly longer than those set in conventional torque drivers.

3. **Tweezers**
   To be used for removing and installing parts and wires.

4. **Chip IC replacement jig**
   To be used for adjustment of the camera system.

5. **Jig connector cable**
   Connected to CN107 of the main board and used for electrical adjustment, etc.

6. **Extension connector**
   Connect this extension connector to the connector of the jig connector cable for extending the cable connector.
   Note : *For supplying the power through the coupler by removing the cover (for jig), use this extension connector double for connecting the jig connector cable.*

7. **Communication cable**
   Connect the Communication cable between the PC cable and Jig connector cable when performing a PC adjustment.

8. **PC cable**
   To be used to connect the VideoMovie and a personal computer with each other when a personal computer is used for adjustment.

9. **Alignment tape**
   To be used for check and adjustment of interchangeability of the mechanism.

10. **Service support system**
    To be used for adjustment with a personal computer.

11. **INF adjustment lens**
    To be used for adjustment of the camera system.

12. **INF adjustment lens holder**
    To be used together with the camera stand for operating the VideoMovie in the stripped-down condition such as the status without the exterior parts or for using commodities that are not yet conformable to the interchangeable ring.

13. **Camera stand**
    To be used together with the INF adjustment lens holder.

14. **Light box assembly**
    To be used for adjustment of the camera system.

15. **Gray scale chart (for Light box assembly)**
    To be used for adjustment of the camera system.

16. **Color bar chart (for Light box assembly)**
    To be used for adjustment of the camera system.

3.2 SETUP

1. Setup for electrical adjustment with personal computer

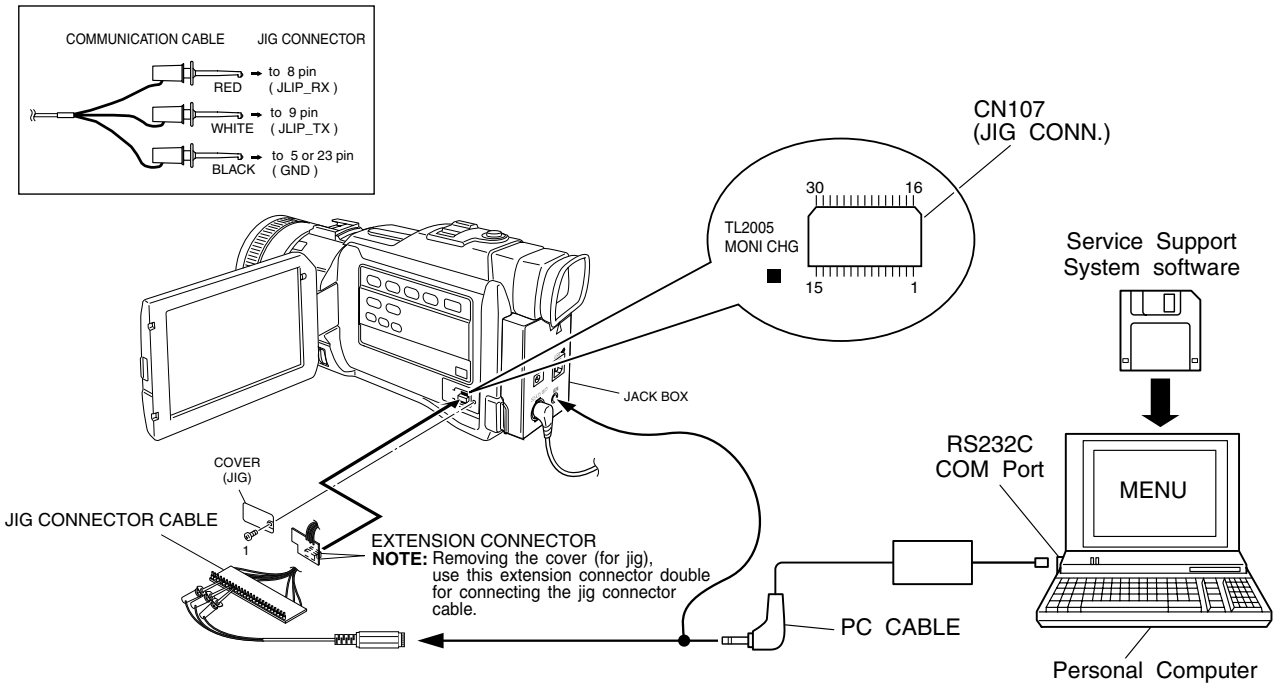


Fig. 3-2-1 Connection for Service support system

3.3 MONITOR ADJUSTMENT

Notes : *Unless otherwise specified, all measurement points and adjustment parts are located on MONITOR board.*

3.3.1 PLL (MONI)

Subject	●Camera picture ●Gray scale
Mode	●EE
Equipment	●Oscilloscope
Measurement point	●IC7301 pin 24 (RPD) or TL7301 (RPD)
Adjustment part	●R7321 (PLL MONI)
Specification	●A = B

1) Observe waveform at pin 24 of the IC7301 or TP7301 (RPD).
2) For the wavefor shown in the waveform chart (Fig. 3-3-1), equalize the width of A and B with each other by adjusting R7321.

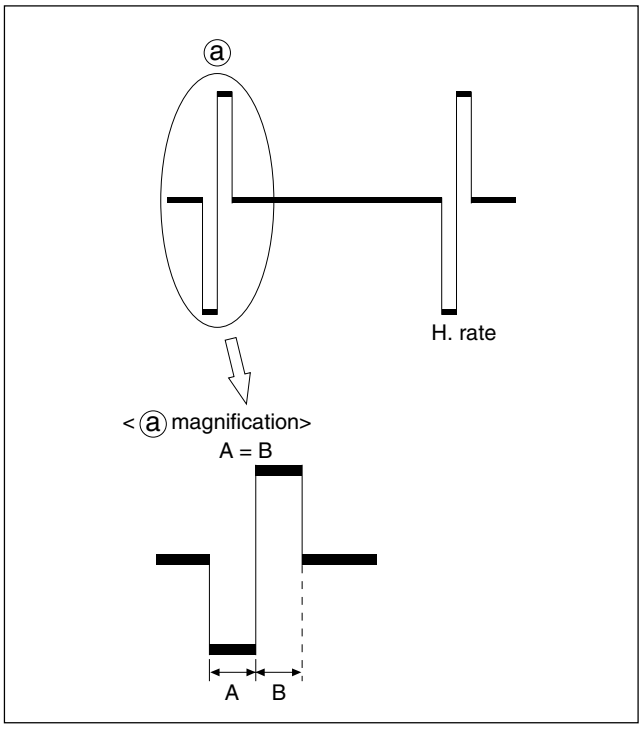


Fig. 3-3-1 PLL (MONI)

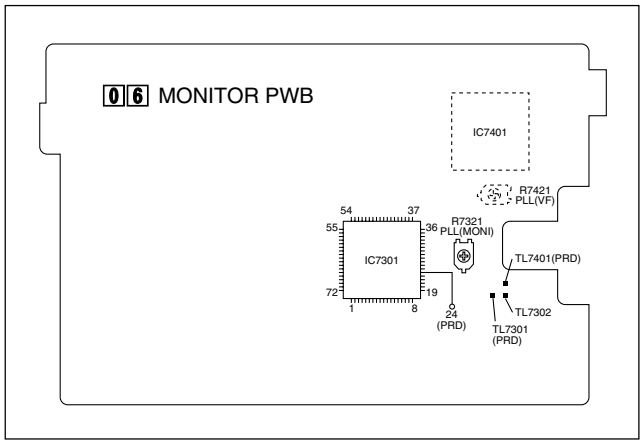


Fig. 3-3-2 MONITOR board (COMPONENT SIDE)

3.4 ELECTRONIC VIEWFINDER (E.VF) ADJUSTMENT

Notes : *Unless otherwise specified, all measurement points and adjustment parts are located on MONITOR board.*

3.4.1 PLL (VF)

Subject	●Camera picture ●Gray scale
Mode	●EE
Equipment	●Oscilloscope
Measurement point	●IC7401 pin 24 (RPD) or TL7401 (RPD)
Adjustment part	●R7421 (PLL VF)
Specification	●A = B

1) Observe waveform at pin 24 of the IC7401 or TL7401 (RPD).
2) For the wavefor shown in the waveform chart (Fig. 3-4-1), equalize the width of A and B with each other by adjusting R7421.

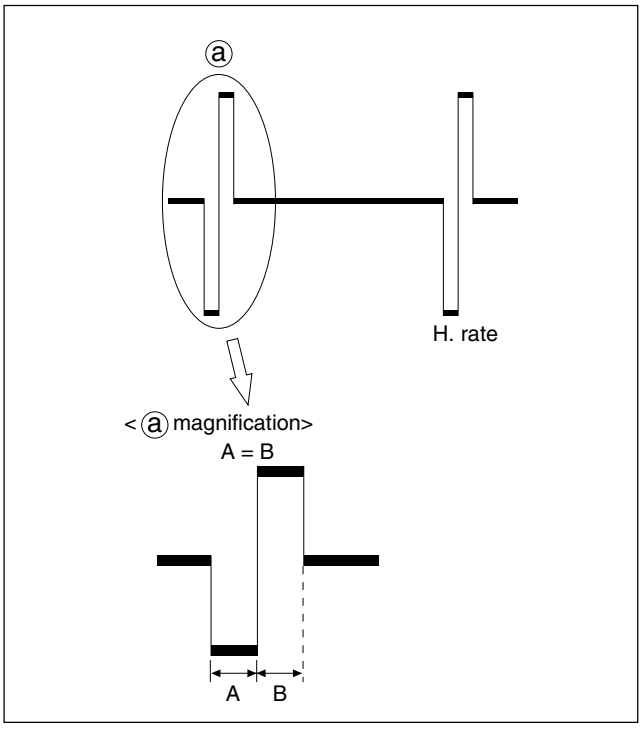


Fig. 3-4-1 PLL (VF)

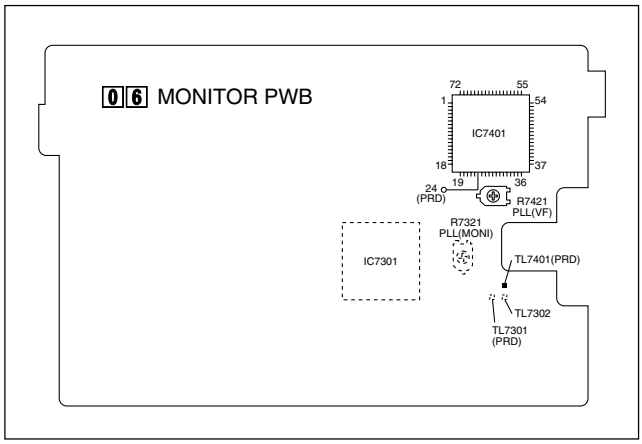


Fig. 3-4-2 MONITOR board (COMPONENT SIDE)

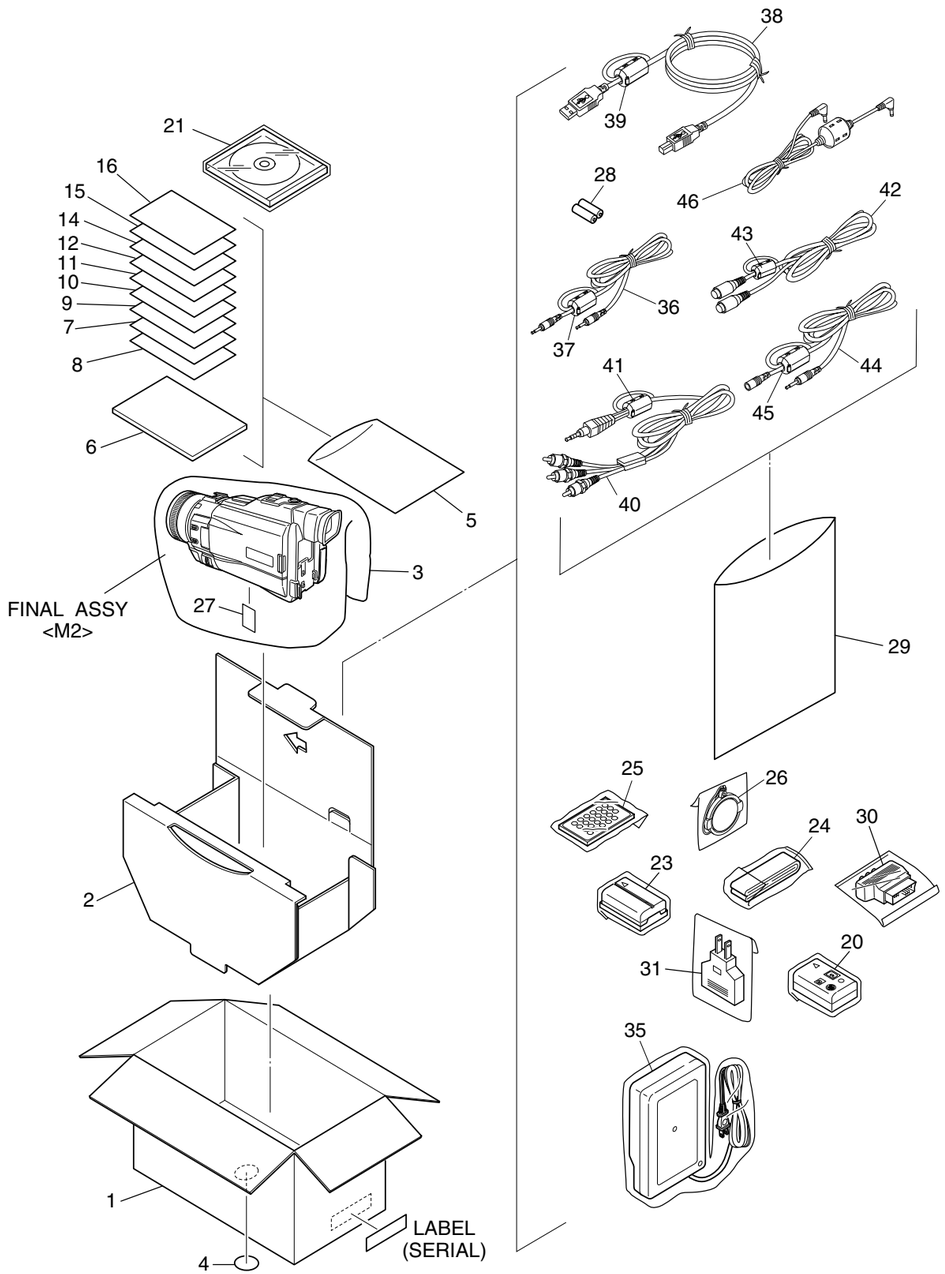
SECTION 5
PARTS LIST

SAFETY PRECAUTION

Parts identified by the ⚠ symbol are critical for safety. Replace only with specified part numbers.

5.1 PACKING AND ACCESSORY ASSEMBLY <M1>

The instruction manual to be provided with this product will differ according to the destination.



#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION
★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★				
				PACKING AND ACCESSORY ASSEMBLY <M1>
		1	LY32592-001A	PACKING CASE,A,B,C,D,G
			LY32592-002A	PACKING CASE,E,F
		2	LY20805-001A	CUSION
		3	LY30023-015A	POLY BAG
		4	LY43496-001A	STICKER(EK),B
		5	QPA02003506	POLY BAG,A,C,D,E,F,G
			YQM30061-3	POLY BAG,B
	⚠	6	LYT0939-002A	INST.BOOK(GE),A,G
	⚠		LYT0939-003A	INST.BOOK(FR),A
	⚠		LYT0939-004A	INST.BOOK(DU),A
	⚠		LYT0939-005A	INST.BOOK(SP),A
	⚠		LYT0939-006A	INST.BOOK(IT),A
	⚠		LYT0939-007A	INST.BOOK(DA),G
	⚠		LYT0939-008A	INST.BOOK(FI),G
	⚠		LYT0939-009A	INST.BOOK(SW),G
	⚠		LYT0939-010A	INST.BOOK(NO),G
	⚠		LYT0940-001A	INST.BOOK(EN),B
	⚠		LYT0972-001A	INST.BOOK(EN),C,D,E,F
	⚠		LYT0972-002A	INST.BOOK(CH),C,E,F
	⚠		LYT0972-003A	INST.BOOK(RU),C,E,F
	⚠		LYT0972-004A	INST.BOOK(AR),C
	⚠		LYT0972-008A	INST.BOOK(GE),C
	⚠		LYT0972-009A	INST.BOOK(FR),C
		7	LYT0884-004A	INST.BOOK(PRINTER.EN),B,C,D,E,F
			LYT0884-005A	INST.BOOK(PRINTER.FR),A,C
			LYT0884-006A	INST.BOOK(PRINTER.SP),A
			LYT0939-015A	INST.BOOK(PRINTER.GE),A,C,G
			LYT0939-016A	INST.BOOK(PRINTER.DU),A
			LYT0939-017A	INST.BOOK(PRINTER.IT),A
			LYT0939-018A	INST.BOOK(PRINTER.DA),G
			LYT0939-019A	INST.BOOK(PRINTER.FI),G
			LYT0939-020A	INST.BOOK(PRINTER.SW),G
			LYT0939-021A	INST.BOOK(PRINTER.NO),G
			LYT0972-005A	INST.BOOK(PRINTER.CH),C,E,F
			LYT0972-006A	INST.BOOK(PRINTER.RU),C,E,F
			LYT0972-007A	INST.BOOK(PRINTER.AR),C
	⚠	8	LYT0883-002A	INST.BOOK(SOFT.GE),A,C,G
	⚠		LYT0883-004A	INST.BOOK(SOFT.DU),A
	⚠		LYT0883-006A	INST.BOOK(SOFT.IT),A
	⚠		LYT0883-007A	INST.BOOK(SOFT.DA),G
	⚠		LYT0883-008A	INST.BOOK(SOFT.FI),G
	⚠		LYT0883-009A	INST.BOOK(SOFT.SW),G
	⚠		LYT0883-010A	INST.BOOK(SOFT.NO),G
			LYT0883-011A	INST.BOOK(SOFT.CH),C,E,F
			LYT0883-012A	INST.BOOK(SOFT.RU),C,E,F
	⚠		LYT1020-001A	INST.BOOK(SOFT.EN),B,C,D,E,F
	⚠		LYT1020-002A	INST.BOOK(SOFT.FR),A,C
	⚠		LYT1020-003A	INST.BOOK(SOFT.SP),A
		9	LYT0609-001A	SHEET(CON.PLUG),C
		10	YU30878	REGIST. CARD,B
		11	BT-56002-2	SER.NET CARD,D
		12	BT-54008-2	GUARANTY CARD,B
			BT-59012-1	GUARANTY CARD,E
		13	LYT0889-009A	SHEET(E.SOKO),G
		14	BT-54013-2	WARRANTY CARD,A,G
			BT-56001-2	WARRANTY CARD,D
			BT-59011-2	WARRANTY CARD,E
		15	LYT0194-001B	Q.CARD(JUK),B
		16	LYT0867-001A	PAMPHLET(EK),B
		20	LY20677-002D	JACK BOX,CU-V504U
		21	LY32210-037A	CD ROM ASSY

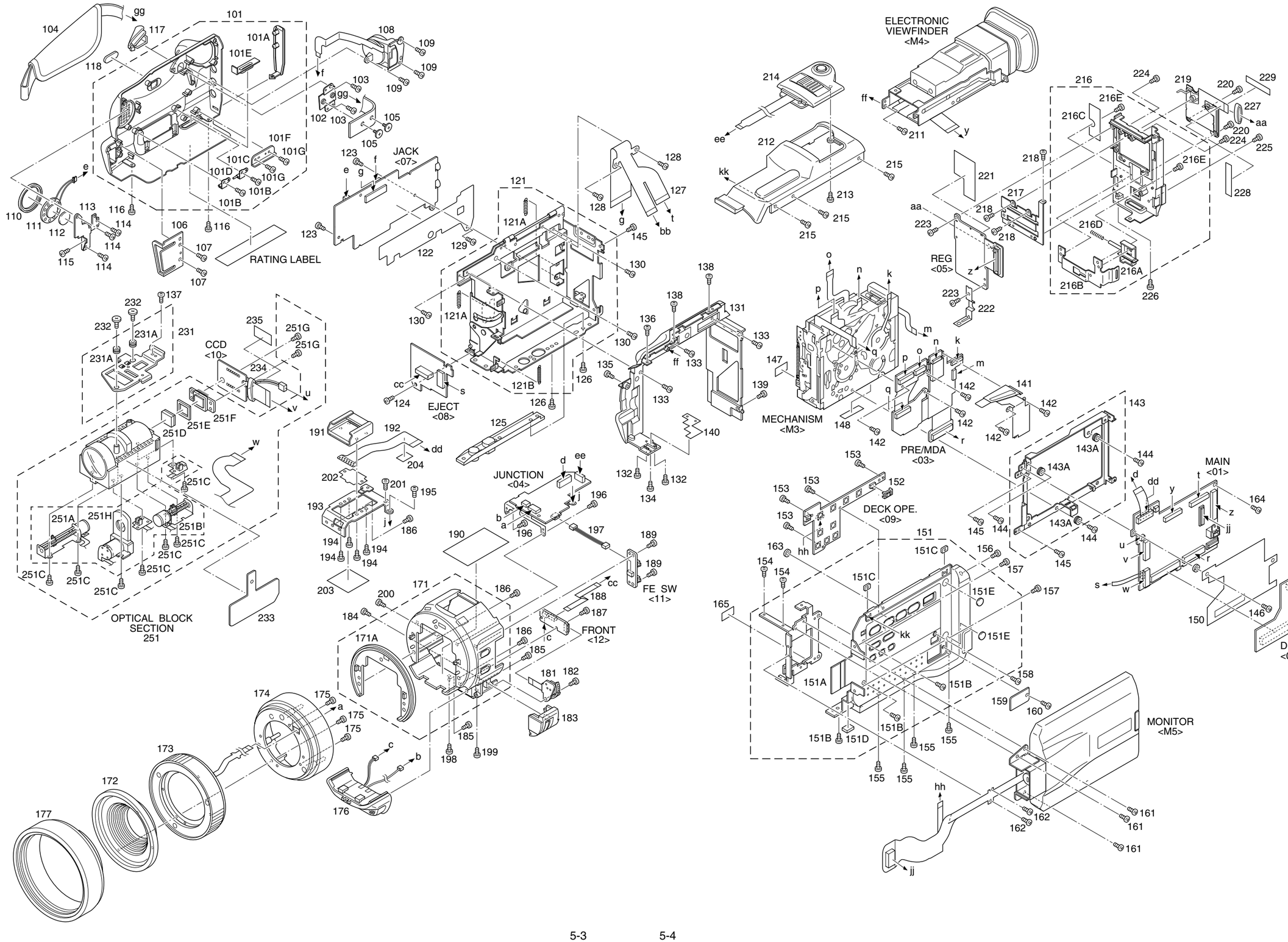
#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION
	⚠	23	LY32566-001A	BATTERY PACK,BN-V408U
		24	LY20186-001A	SHOULDER STRAP
		25	LY20750-001A	REMOTE CONTROL UNIT,RM-V717U
		26	LY32430-001A	HOOD CAP ASSY,LENS CAP
		27	QAM0342-002	MEMORY CARD(8MB SD)
		28	–	BATTERY,AAA(R03),X2
		29	QPA01703005	POLY BAG
		30	QAM0302-001	ADAPTOR PLUG,A,B,G
	⚠	31	PEMC1012-02	CONVERSION PLUG,C
	⚠	35	LY20591-003D	AC POWER ADAPTER CHARGER,AA-V40EG,A,G
	⚠		LY20591-004B	AC POWER ADAPTER CHARGER,AA-V40EK,B
	⚠		LY20591-005C	AC POWER ADAPTER CHARGER,AA-V40ED,E
	⚠		LY20591-006C	AC POWER ADAPTER CHARGER,AA-V40SH,F
	⚠		LY20591-007B	AC POWER ADAPTER CHARGER,AA-V40A,C
	⚠		LY20591-009B	AC POWER ADAPTER CHARGER,AA-V40EA,D
		36	PEAC0428-150	CABLE ASSY,EDITING CABLE
		37	QQR0491-002	CORE FILTER
		38	QAM0322-001	USB CABLE
		39	QQR0918-001	CORE FILTER
		40	QAM0347-001	CABLE ASSY,AUDIO/VIDEO CABLE
		41	QQR0918-002	CORE FILTER
		42	QAM0004-004	S-VIDEO CABLE
		43	QQR0918-002	CORE FILTER
		44	QAM0213-001	AUDIO CABLE
		45	QQR0917-002	CORE FILTER
		46	QAM0301-001	DC CORD

MODEL	MARK
GR-DV3000EG-X	A
GR-DV3000EK	B
GR-DV3000A	C
GR-DV3000EA	D
GR-DV3000ED	E
GR-DV3000SH	F
GR-DV3000EG-Y	G

• INSTRUCTIONS

GE ..... GERMAN
FR ..... FRENCH
DU ..... DUTCH
SP ..... SPANISH
IT ..... ITALIAN
DA ..... DANISH
FI ..... FINNISH
SW ..... SWEDISH
NO ..... NORWEGIAN
RU ..... RUSSIAN
EN ..... ENGLISH
CH ..... CHINESE
AR ..... ARABIC

5.2 FINAL ASSEMBLY <M2>



# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION
**********		

FINAL ASSEMBLY <M2>

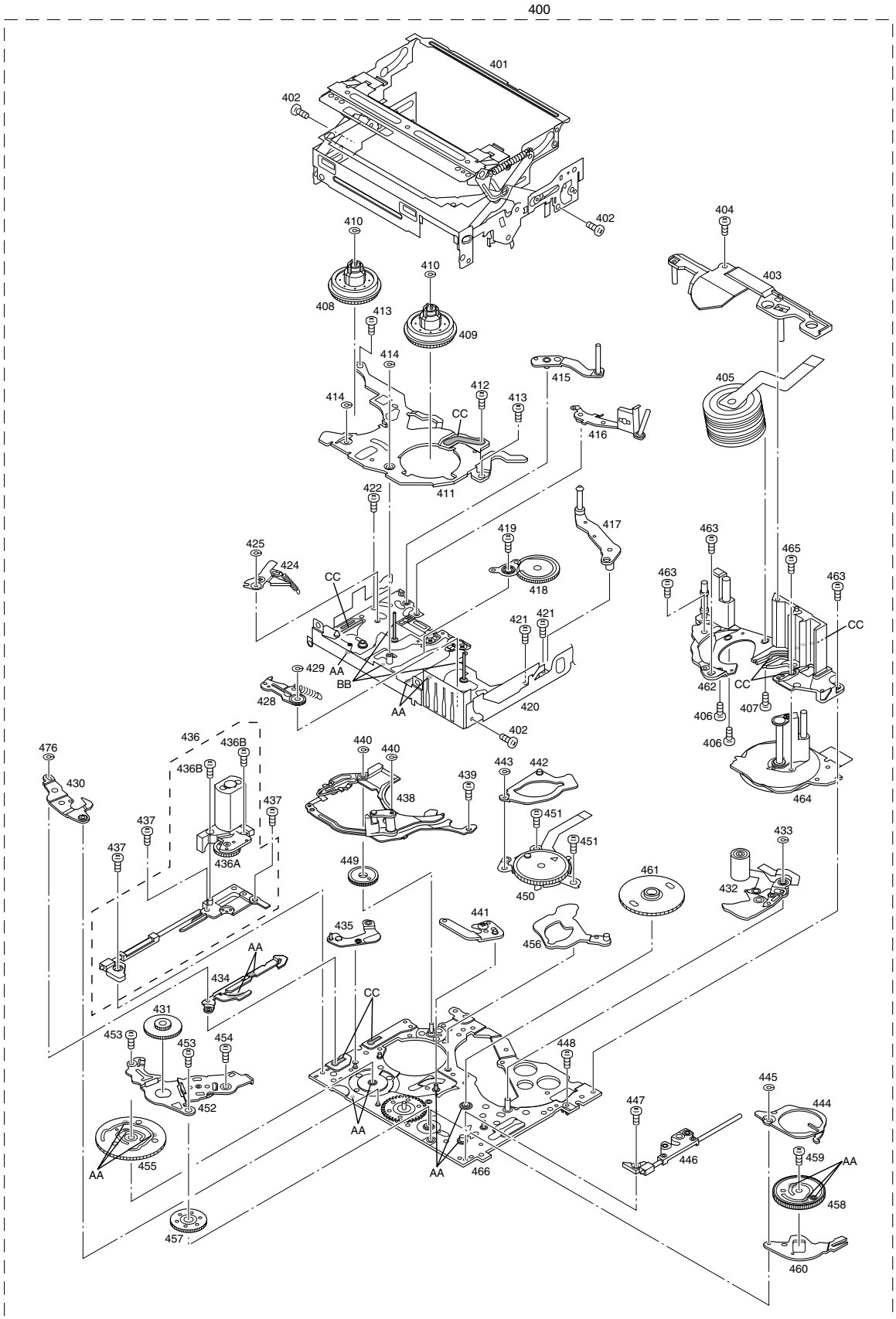
⚠	101	LY20657-002C	CASSETTE COVER ASSY
	101A	LY31973-001A	JACK COVER
	101B	LY30018-021A	SPECIAL SCREW,X2
	101C	LY32045-001A	HINGE ASSY(CASSETTE)
	101D	LY32045-002A	HINGE ASSY(CASSETTE)
	101E	LY42786-001A	KNOB(LOCK)
	101F	LY42787-001A	HOLDER(LOCK)
	101G	LY30018-037A	SPECIAL SCREW,X2
	102	LY42789-001B	BRACKET(GRIP BELT)
	103	QYSLSF2040D	SCREW,X2
	104	LY20658-002A	GRIP BELT
	105	LY30018-0C7A	SPECIAL SCREW,X2
	106	LY42788-001B	HOOK
	107	QYSLSF2055D	SCREW,X2
	108	LY20786-002A	POWER OPE.UNIT,A,B,C,D,F
		LY20786-002B	POWER OPE.UNIT,E,G
	109	LY30018-0B7A	SPECIAL SCREW,X3
	110	LY40301-001A	SPACER(SPEAKER)
	111	QAS0063-001	SPEAKER
	112	LY42918-001B	SPACER(SPEAKER)
	113	LY31977-001A	HOLDER(SPEAKER)
	114	LY30018-021A	SPECIAL SCREW,X3
	115	LY30018-032A	SPECIAL SCREW
	116	LY30018-038A	SPECIAL SCREW,X2
	117	LY42790-001B	COVER(CASSETTE)
	118	LY32039-001B	COVER(CASSETTE REAR)
	121	LY31964-001G	ARM ASSY
	121A	LY30002-046B	COMPRESSION SPRING,X2
	121B	LY42814-001A	TENSION SPRING
	122	LY42881-001C	SPACER(JACK)
	123	QYSPSPT1720R	SCREW,X2
	124	QYSPSPT1720R	SCREW
	125	LY31984-001B	BASE
	126	LY30018-006B	SPECIAL SCREW,X2
	127	QAL0260-001	FPC,JACK CN301-MAIN CN111/DSC CN8402
	128	LY30018-005A	SPECIAL SCREW,X2
	129	LY30018-0B7A	SPECIAL SCREW
	130	LY30018-0B7A	SPECIAL SCREW,X3
	131	LY10266-001A	LOWER CASE
	132	LY30018-062A	SPECIAL SCREW,X2
	133	LY30018-006B	SPECIAL SCREW,X3
	134	LY30018-044A	SPECIAL SCREW
	135	LY30018-006B	SPECIAL SCREW
	136	LY30018-006B	SPECIAL SCREW
	137	LY30018-006B	SPECIAL SCREW
	138	LY30018-006B	SPECIAL SCREW,X2
	139	LY30018-017A	SPECIAL SCREW
	140	LY43532-001A	SHIELD(LOWER)
	141	LY32012-001B	SHIELD COVER(PR)
	142	QYSPSPT1414M	SCREW,X5
	143	LY32066-001A	BRACKET(MECHA)ASSY
	143A	LY42796-001A	BUSH,X3
	144	LY30019-028A	SPECIAL SCREW,X3
	145	QYSPSPT1715Z	SCREW,X3
	146	LY42424-001A	SPECAL SCREW
	147	LY40699-002A	LABEL(PUSH)
	148	LY32001-002A	LABEL(HOUSING)
	150	LY43547-001A	SHIELD(MAIN)
⚠	151	LY20800-002C	UPPER CASE ASSY
	151A	LY32414-001A	BRACKET(HINGE)
	151B	LY30018-0A8A	SPECIAL SCREW,X3
	151C	LY40162-001A	BRACKET,X2
	151D	LY30029-083A	SPACER(A)
	151E	LY40664-001A	SPACER,X2
	152	LY32415-001A	KNOB(SLIDE)
	153	LY30018-020A	SPECIAL SCREW,X4
	154	LY30018-006B	SPECIAL SCREW,X2
	155	LY30018-044A	SPECIAL SCREW,X4
	156	LY30018-044A	SPECIAL SCREW
	157	LY43593-001A	SPECIAL SCREW,X2
	158	LY30018-006B	SPECIAL SCREW
	159	LY41393-004A	COVER(JIG CONNECTOR)
	160	LY30018-026A	SPECIAL SCREW
	161	LY30018-0E5A	SPECIAL SCREW,X3

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION
162	LY30018-055A	SPECIAL SCREW,X2
163	LY41836-001A	SPACER
164	LY30019-002A	SPECIAL SCREW
165	LY30029-0T5A	SPACER(A)
171	LY20801-002C	FRONT COVER ASSY
171A	LY32416-001A	RING(FRONT)
172	LY32418-001A	HOOD ASSY
173	LY20788-001A	FOCUS UNIT
174	LY32422-001A	COVER(OP)
175	LY30018-0A7A	SPECIAL SCREW,X3
176	LYH20349-001B	MICROPHONE
177	LY32003-002A	HOOD(ACC)
181	LY32471-001A	SW FPC ASSY
182	LY30018-063A	SPECIAL SCREW
183	LY32425-002A	COVER(MENU)
184	LY30018-063A	SPECIAL SCREW
185	LY30018-0A2A	SPECIAL SCREW,X2
186	LY30018-052A	SPECIAL SCREW,X3
187	LY30018-063A	SPECIAL SCREW
188	WJT0061-001B	E-CARD WIRE,EJECT CN2421-FRONT CN2413
189	LY30018-063A	SPECIAL SCREW,X2
190	LY30029-0S6A	SPACER(A)
191	LY31998-002A	HOT SHOE
192	QAL0393-001	FPC,HOT SHOE-MAIN CN103
193	LY32426-001A	BRACKET(HOT SHOE)
194	LY30018-081A	SPECIAL SCREW,X4
195	LY30018-081A	SPECIAL SCREW
196	LY30018-063A	SPECIAL SCREW,X2
197	QJA001-030408	SIN ID C-C WIRE,JUNC.CN1103-FE SW CN1181
198	LY30018-063A	SPECIAL SCREW
199	LY30018-044A	SPECIAL SCREW
200	LY30018-0E6A	SPECIAL SCREW
201	LY30018-006B	SPECIAL SCREW
202	LY43228-001A	SHEET(HOT SHOE)
203	LY30029-0J5A	SPACER(A)
204	LY30029-0U9A	SPACER(A)
211	LY30018-059A	SPECIAL SCREW
212	LY20787-002A	ZOOM OPE.UNIT
213	LY30018-006B	SPECIAL SCREW
214	LY32427-002A	TOP COVER ASSY
215	LY30018-006B	SPECIAL SCREW,X3
216	LY31986-002B	REAR COVER ASSY
216A	LY31988-001D	KNOB(BATTERY RELEASE)
216B	LY31989-001A	BRACKET(BATTERY RELEASE)
216C	LY42792-001A	SHEET(REAR)
216D	LY30002-048A	COMPRESSION SPRING
216E	LY30018-066A	SPECIAL SCREW,X2
217	LY31987-001A	BRACKET(TERM)
218	LY30018-019A	SPECIAL SCREW,X3
219	LY20660-001C	BATTERY TERMINAL UNIT
220	LY30018-038A	SPECIAL SCREW,X2
221	LY42978-001B	SPACER(REG PWB)
222	LY42889-001B	SHIELD(REG)
223	LY30018-060A	SPECIAL SCREW,X2
224	LY30018-0C2A	SPECIAL SCREW,X2
225	LY30018-0A3A	SPECIAL SCREW
226	LY30018-0A3A	SPECIAL SCREW
227	QQR0895-014	FERRITE CORE
228	LY30029-0T4A	SPACER(A)
229	LY30029-0T4A	SPACER(A)
231	LY32439-001A	BRACKET(OP)ASSY
231A	LY42796-001A	BUSH,X2
232	LY30019-029B	SPECIAL SCREW,X2
233	LY43511-001A	SHIELD(OP)
234	QQR1290-001	CORE FILTER
235	LY30029-0W4A	SPACER(A)

-OPTICAL BLOCK SECTION-

251	J1E-101A	OPTICAL BLOCK ASSY
251A	LY32390-001A	ZOOM MOTOR
251B	LY32391-001A	FOCUS MOTOR
251C	LY30727-002A	SCREW,X7
251D	LY43270-001A	OPTICAL LPF
251E	LY43281-001A	SPACER RUBBER
251F	LYH30375-001A	CCD BASE ASSY
251G	QYSPSGU1750Z	SCREW,X2
251H	LY32389-001A	IRIS MOTOR UNIT

5.3 MECHANISM ASSEMBLY <M3>



Classification	Part No.	Symbol in drawing
Grease	KYODO-SH-JB	AA
Oil	YTU94027	BB
Grease (HANARL)	RX-410R	CC

NOTE: The section marked in **AA** and **BB**, **CC** indicate lubrication and greasing areas.

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION
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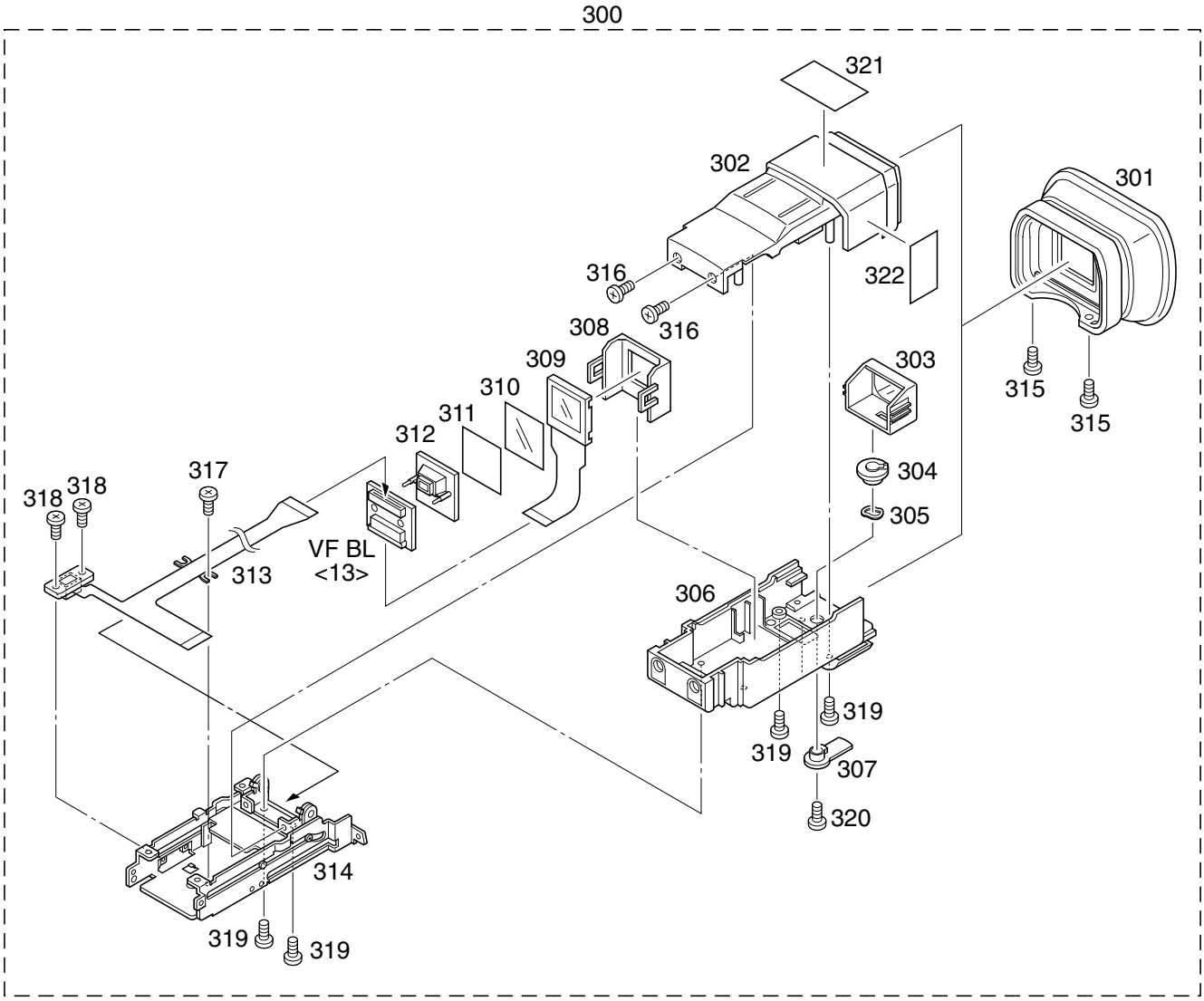
MECHANISM ASSEMBLY <M3>

400	YMA0029A	MECHA(A)ASSY
401	LY31543-003C	CASSETTE HOUSING ASSY
402	YQ43893-8	MINI SCREW,X3
403	LY31542-001J	UPPER BASE ASSY
404	YQ43893	MINI SCREW
405	YDV2096B	DRUM ASSY
406	LY42820-001A	DAMPER SCREW ASSY,X2
407	LY42820-002A	DAMPER SCREW ASSY
408	LY31538-001B	REEL DISK ASSY
409	LY31538-002B	REEL DISK ASSY
410	YQ44246	SLIT WASHER,X2
411	LY10217-001D	REEL COVER ASSY
412	LY42120-001A	MINI SCREW
413	LY41945-003A	MINI SCREW,X2
414	YQ44246	SLIT WASHER,X2
415	LY42025-001C	TENSION ARM ASSY
416	LY31535-001F	SLANT POLE ARM ASSY
417	LY42031-001G	TAKE UP ARM ASSY
418	LY31531-001D	SWING ARM ASSY
419	YQ43893	MINI SCREW
420	LY20530-001G	SLIDE DECK FINAL ASSY
421	YQ43893	MINI SCREW,X2
422	LY43023-001A	MINI SCREW
424	LY31533-001E	PAD ARM ASSY
425	YQ44246	SLIT WASHER
428	LY42016-001B	TAKE UP BRAKE ASSY
429	YQ44246	SLIT WASHER
430	LY41959-001B	TENSION CONTROL LEVER ASSY
431	LY31525-001B	CENTER GEAR
432	LY31516-001E	PINCH ROLLER ARM FINAL ASSY
433	YQ44246	SLIT WASHER
434	LY41956-001C	TENSION CONTROL PLATE ASSY
435	LY41962-001B	BRAKE CONTROL LEVER ASSY
436	LY20525-001G	MOTOR BRACKET ASSY
436A	QAR0138-001	LOADING MOTOR
436B	LY41940-001A	TAPPING SCREW,X2
437	YQ43893	MINI SCREW,X3
438	LY20528-001Q	GUIDE RAIL ASSY
439	YQ43893	MINI SCREW
440	YQ44246	SLIT WASHER,X2
441	LY31498-002B	SLIDE LEVER2 ASSY
442	LY41965-001A	LOADING PLATE ASSY
443	YQ44246	SLIT WASHER
444	LY31522-001B	EJECT LEVER
445	YQ44246	SLIT WASHER
446	LY41929-001E	BASE R ASSY
447	YQ43893	MINI SCREW
448	LY41945-001B	MINI SCREW
449	LY41930-001A	MODE GEAR
450	QSW0876-001	ROTARY ENCODER
451	YQ43893	MINI SCREW,X2
452	LY31524-001A	GEAR COVER ASSY
453	YQ43893	MINI SCREW,X2
454	YQ43893-4	MINI SCREW
455	LY41948-001C	MAIN CAM ASSY
456	LY41941-001B	SLIDE ARM ASSY
457	LY41951-001B	CONNECT GEAR 2

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION
458	LY41954-001B	SUB CAM ASSY
459	LY42120-001A	MINI SCREW
460	LY41952-001A	CONTROL ARM ASSY
461	LY31523-001B	REEL GEAR 1
462	LY31508-001E	DRUM BASE ASSY
463	QYSPSPU1425M	SCREW,X3
464	QAR0142-001	CAPSTAN MOTOR
465	YQ43893	MINI SCREW
466	LY10210-001C	MAIN DECK ASSY
476	YQ44246	SLIT WASHER

5.4 ELECTRONIC VIEWFINDER ASSEMBLY <M4>



#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION

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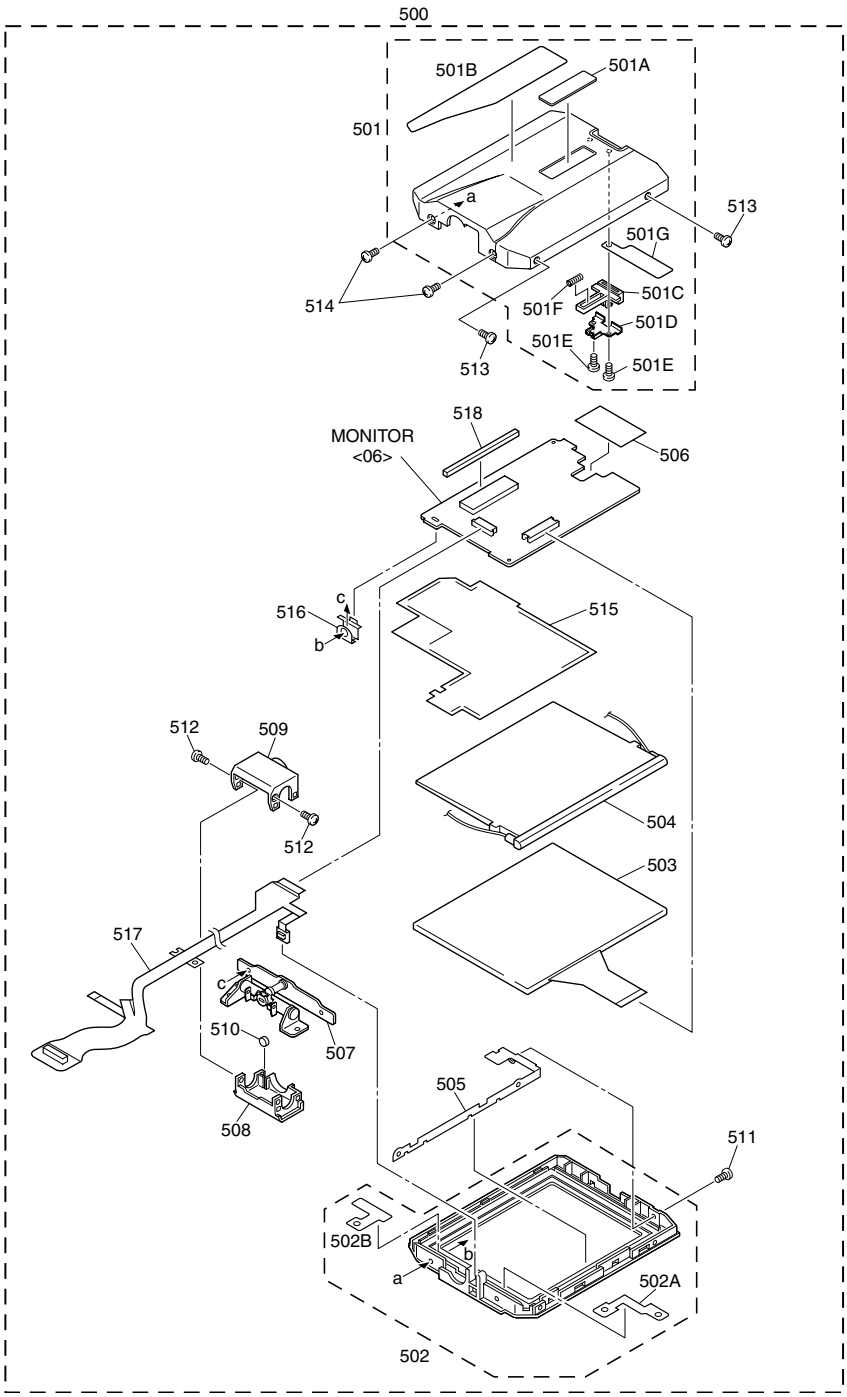
ELECTRONIC VIEWFINDER ASSEMBLY <M4>

		300	LYH20347-002B	VF ASSY
		301	LY32458-001A	EYE CUP
		302	LY10338-001A	UPPER CASE(VF)
		303	LY43325-001A	HOLD(LENS)ASSY
		304	LY43342-001A	LINK(LENS)
		305	LY43334-001A	WAVE WASHER
		306	LY32461-001A	BOTTOM CASE(VF)ASSY
		307	LY43324-001A	LEVER(LENS)
		308	LY32455-001A	HOLDER(LCD)
		309	QLD0117-002	LCD MODULE
		310	LY43328-001A	SHEET(PRISM)
		311	LY43327-001A	SHEET(DIFFUSE)
		312	LY43343-001A	HOLDER(PWB)
		313	LY32070-002A	VF FPC ASSY
		314	LY32454-001C	HOLDER(VF)ASSY
		315	LY30019-041A	SPECIAL SCREW,X2
		316	LY30018-067B	SPECIAL SCREW,X2
		317	LY30018-031A	SPECIAL SCREW
		318	LY30018-031A	SPECIAL SCREW,X2
		319	LY30018-084A	SPECIAL SCREW,X4
		320	LY30018-063A	SPECIAL SCREW
		321	LY41701-004A	SHEET(CAUTION)1
		322	LY43041-001A	LABEL(VF)

5.5 MONITOR ASSEMBLY <M5>



#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION

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MONITOR ASSEMBLY <M5>

⚠	500	LYH20330-003A	MONITOR ASSY
⚠	501	LY32435-002C	MONITOR COVER ASSY
	501A	LY42883-002A	MARK
	501B	LY43617-001A	STICKER
	501C	LY32014-001A	KNOB(LOCK)
	501D	LY42799-001A	BRACKET(LOCK)
	501E	LY30018-019A	SPECIAL SCREW,X2
	501F	LY30002-047A	COMPRESSION SPRING
	501G	LY42800-001A	SHEET(LOCK)
	502	LY32436-001A	MONITOR CASE ASSY
	502A	LY42801-001B	SHEET(EARTH1)
	502B	LY42971-001B	SHEET(EARTH3)
	503	QLD0115-003	LCD MODULE
	504	QLL0091-001	BACK LIGHT
	505	LY32016-001A	BRACKET(MONITOR CASE)
	506	LY30029-0C4A	SPACER(A)
	507	LY32017-001C	HINGE ASSY
	508	LY32018-001A	HINGE COVER(U)
	509	LY32019-001A	HINGE COVER(L)
	510	LY42355-001A	MAGNET
	511	LY30018-053A	SPECIAL SCREW
	512	LY30018-0A2A	SPECIAL SCREW,X2
	513	LY30018-053A	SPECIAL SCREW,X2
	514	LY30018-028A	SPECIAL SCREW,X2
	515	LY42843-001C	MONITOR SHIELD PLATE
	516	LY41726-001A	PLATE(EARTH)
	517	LY20681-001A	FPC ASSY(LCD)
	518	LY30029-0S7A	SPACER(A)

5.6 ELECTRICAL PARTS LIST

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION
**********		

MAIN BOARD ASSEMBLY <01>

PW	YB10366C	MAIN BOARD ASSY,A
	YB10366C-01	MAIN BOARD ASSY,B,C,D,E,F,G
IC1001	UPD703039F1-A20	IC(MICRO C ROM)
	or UPD70F3040F1A20	IC(MICRO C ROM)
IC1002	RS5C314	IC
IC1003	X25330S8I-2.5-X	IC
	or 25LC640-I/SN-X	IC
	or AT25320N-10SI-X	IC
	or CAT25C32SI	IC
IC1006	MB90097PFV145	IC(MICRO C ROM)
IC1007	HD74LV1G08ACM	IC
IC1401	UPD703040YF-M03	IC(MICRO C ROM)
	or UPD70F3040YFM03	IC(MICRO C ROM)
IC2101	AK4550VT	IC
IC2151	AK4550VT	IC
IC2201	LA74202W	IC
IC2301	BA4510FV	IC
IC3001	JCY0176	IC
IC3002	BU2501FV	IC
IC3004	SN74AHC1G04K	IC
IC3007	JCY0174	IC
IC3701	BA7665FS	IC
IC3731	MM1504XN	IC
IC3801	JCP8045	IC(DIGITAL)
IC4201	HD49334HF	IC
IC4202	RH5RZ31CA	IC
IC4301	JCY0160-2	IC
IC4302	R1160N151B	IC
IC4303	MM1385NN	IC
	or TAR5S25	IC
IC4802	TA75W01FU	IC
IC4803	TA75W01FU	IC
IC4804	LM358DR2	IC
IC4851	UPD16879GS	IC
IC5001	CXD3602R	IC
IC5002	W194-70G-X	IC
IC5003	MM1385EN	IC
	or TAR5S33	IC
IC6001	S-80842ANNP-W	IC
IC6003	S-814A30AMC-W	IC
IC6004	S-80826ANNP-W	IC
Q1001	DTC124EE	DIGI TRANSISTOR
	or UN9212J	DIGI TRANSISTOR
Q1002	2SC4617/QR/-X	TRANSISTOR
	or 2SD2216J/QR/-X	TRANSISTOR
Q1003	DTC143EE	DIGI TRANSISTOR
	or UN921LJ	DIGI TRANSISTOR
Q1004	DTC143XE	DIGI TRANSISTOR
Q1401	DTA114EE	DIGI TRANSISTOR
	or PDTA114EE	DIGI TRANSISTOR
	or RN2102	DIGI TRANSISTOR
	or UN9111J	DIGI TRANSISTOR
Q1402	UMC3N	DIGI TRANSISTOR
Q1403	UMC3N	DIGI TRANSISTOR
Q2001	EMX1	TRANSISTOR,B,C,D,E,F,G
Q2002	EMX1	TRANSISTOR,B,C,D,E,F,G
Q2003	EMX1	TRANSISTOR,B,C,D,E,F,G
Q2004	EMX1	TRANSISTOR,B,C,D,E,F,G
Q2302	2SC4617/QR/-X	TRANSISTOR
	or 2SD2216J/QR/-X	TRANSISTOR
Q2303	UMX18N	PAIR TRANSISTOR
Q2401	2SC4617/QR/-X	TRANSISTOR
	or 2SD2216J/QR/-X	TRANSISTOR
Q2402	2SA1774/QR/-X	TRANSISTOR
Q2403	DTC144EE	DIGI TRANSISTOR
	or UN9213J	DIGI TRANSISTOR
Q2601	2SC4617/QR/-X	TRANSISTOR
	or 2SD2216J/QR/-X	TRANSISTOR
Q2602	2SC4617/QR/-X	TRANSISTOR
	or 2SD2216J/QR/-X	TRANSISTOR
Q2603	2SC4617/QR/-X	TRANSISTOR
	or 2SD2216J/QR/-X	TRANSISTOR
Q2604	2SC4617/QR/-X	TRANSISTOR
	or 2SD2216J/QR/-X	TRANSISTOR
Q2701	UMX1N	PAIR TRANSISTOR
	or XP4501	TRANSISTOR
Q2702	UMX18N	PAIR TRANSISTOR
Q2703	2SC4617/QR/-X	TRANSISTOR
	or 2SD2216J/QR/-X	TRANSISTOR
Q2901	2SB1121/TU/-X	TRANSISTOR
	or 2SB1121/ST/-X	TRANSISTOR
Q2902	DTC144EE	DIGI TRANSISTOR
	or RN1104	DIGI TRANSISTOR
	or UN9213J	DIGI TRANSISTOR
Q3701	UMT1N	PAIR TRANSISTOR
	or XP4401	TRANSISTOR
Q3702	UMZ1N	PAIR TRANSISTOR
	or XP4601	TRANSISTOR
Q3703	2SA1774/RS/-X	TRANSISTOR
Q3705	UMT1N	PAIR TRANSISTOR
	or XP4401	TRANSISTOR
Q3731	2SC4617/RS/-X	TRANSISTOR
	or 2SD2216J/RS/-X	TRANSISTOR
Q3732	DTC144EE	DIGI TRANSISTOR
	or UN9213J	DIGI TRANSISTOR
Q3733	UMZ1N	PAIR TRANSISTOR
	or XP4601	TRANSISTOR
Q3734	2SC4617/RS/-X	TRANSISTOR
	or 2SD2216J/RS/-X	TRANSISTOR
Q3735	UMZ1N	PAIR TRANSISTOR
	or XP4601	TRANSISTOR
Q4801	2SC4655/BC/-X	TRANSISTOR
Q4802	2SC4617/RS/-X	TRANSISTOR
	or 2SD2216J/RS/-X	TRANSISTOR
Q4803	DTC144EE	DIGI TRANSISTOR
	or PDTC144EE	DIGI TRANSISTOR
	or RN1104	DIGI TRANSISTOR
	or UN9213J	DIGI TRANSISTOR
Q4804	DTA144EE	DIGI TRANSISTOR
	or PDTA144EE	DIGI TRANSISTOR
	or RN2104	DIGI TRANSISTOR
	or UN9113J	DIGI TRANSISTOR
Q4805	DTA143EE	DIGI TRANSISTOR
	or RN2101	DIGI TRANSISTOR
	or UN911LJ	DIGI TRANSISTOR
Q4806	2SC4617/RS/-X	TRANSISTOR
	or 2SD2216J/RS/-X	TRANSISTOR
Q4851	2SC4617/RS/-X	TRANSISTOR
	or 2SD2216J/RS/-X	TRANSISTOR
Q6001	CPH3304	MOS FET
Q6002	2SK3019	MOS FET
	or 2SK1830	MOS FET

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
		Q6003	2SJ347	MOS FET	
		Q6004	2SK3019	MOS FET	
			or 2SK1830	MOS FET	
		Q6005	DTC144EE	DIGI TRANSISTOR	
			or RN1104	DIGI TRANSISTOR	
			or UN9213J	DIGI TRANSISTOR	
		D1001	DA221	DIODE	
		D1002	1SS376	DIODE	
		D2002	EMZ6.8N	ZENER DIODE,A	
		D2003	EMZ6.8N	ZENER DIODE,A	
		D2004	EMZ6.8N	ZENER DIODE,A	
		D2005	RSA6.1J4	DIODE,B,C,D,E,F	
		D2701	DAN222	DIODE	
		D2702	DAN222	DIODE	
		D2901	UMZ6.8EN	ZENER DIODE	
		D2903	EMZ6.8N	ZENER DIODE	
		D3001	EC2C01C	VARI CAP DIODE	
		D3002	EC2C01C	VARI CAP DIODE	
		D3003	EC2C01C	VARI CAP DIODE	
		D3004	MA2Z720	SB DIODE	
		D5001	1SS355	DIODE	
	⚠	D6002	RB715F	SB DIODE	
		R1001	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
		R1002	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
		R1003	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
		R1004	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R1005	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
		R1006	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R1007	NRSA6AJ-334W	MG RESISTOR	330kΩ,1/16W
		R1008	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R1015	NRSA6AJ-474W	MG RESISTOR	470kΩ,1/16W
		R1018	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R1020	NRSA6AJ-331W	MG RESISTOR	330Ω,1/16W
		R1021	NRSA6AJ-331W	MG RESISTOR	330Ω,1/16W
		R1022	NRSA6AJ-331W	MG RESISTOR	330Ω,1/16W
		R1025	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
		R1026	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
		R1029	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
		R1030	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
		R1035	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
		R1037	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R1039	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R1044	NRSA6AJ-123W	MG RESISTOR	12kΩ,1/16W
		R1045	NRSA6AJ-822W	MG RESISTOR	8.2kΩ,1/16W
		R1046	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R1047	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
		R1048	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
		R1049	NRSA6AJ-393W	MG RESISTOR	39kΩ,1/16W
		R1050	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
		R1051	NRSA6AJ-272W	MG RESISTOR	2.7kΩ,1/16W
		R1052	NRSA6AJ-183W	MG RESISTOR	18kΩ,1/16W
		R1053	NRSA6AJ-154W	MG RESISTOR	150kΩ,1/16W
		R1054	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
		R1055	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R1056	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
		R1058	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
		R1060	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
		R1066	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
		R1071	NRSA6AJ-474W	MG RESISTOR	470kΩ,1/16W
		R1076	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R1077	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R1078	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R1079	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R1080	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R1081	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R1083	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R1401	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
		R1402	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R1403	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R1404	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
		R1405	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
		R1406	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
		R1407	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
		R1408	NRSA6AD-753W	MG RESISTOR	75kΩ,1/16W
		R1409	NRSA6AJ-334W	MG RESISTOR	330kΩ,1/16W
		R1411	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
		R1412	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
		R1413	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
		R1414	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
		R1415	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
		R1416	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
		R1417	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
		R1425	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
		R2001	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R2002	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R2003	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R2004	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R2008	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R2009	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R2010	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R2012	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R2013	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R2014	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R2015	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R2101	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
		R2102	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
		R2103	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R2104	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R2105	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R2151	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
		R2153	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R2154	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R2157	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R2201	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R2202	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R2203	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
		R2204	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
		R2206	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
		R2209	NRSA6AJ-2R7W	MG RESISTOR	2.7Ω,1/16W
		R2210	NRSA6AJ-2R7W	MG RESISTOR	2.7Ω,1/16W
		R2212	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
		R2213	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
		R2214	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
		R2215	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R2217	NRSA6AJ-681W	MG RESISTOR	680Ω,1/16W
		R2218	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R2219	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R2220	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R2221	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R2223	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R2224	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R2225	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R2226	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R2301	NRSA6AJ-560W	MG RESISTOR	56Ω,1/16W
		R2302	NRSA6AJ-560W	MG RESISTOR	56Ω,1/16W
		R2305	NRSA6AJ-183W	MG RESISTOR	18kΩ,1/16W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R2306	NRSA6AJ-183W	MG RESISTOR	18kΩ,1/16W
R2307	NRSA6AJ-183W	MG RESISTOR	18kΩ,1/16W
R2308	NRSA6AJ-183W	MG RESISTOR	18kΩ,1/16W
R2309	NRSA6AJ-184W	MG RESISTOR	180kΩ,1/16W
R2310	NRSA6AJ-184W	MG RESISTOR	180kΩ,1/16W
R2311	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R2312	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R2313	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R2314	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R2315	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2316	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2319	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2320	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2325	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R2326	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R2327	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R2328	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R2329	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2330	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2331	NRSA6AJ-564W	MG RESISTOR	560kΩ,1/16W
R2332	NRSA6AJ-564W	MG RESISTOR	560kΩ,1/16W
R2333	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R2402	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R2403	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R2404	NRSA6AJ-822W	MG RESISTOR	8.2kΩ,1/16W
R2406	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R2414	NRSA6AJ-560W	MG RESISTOR	56Ω,1/16W
R2415	NRSA6AJ-560W	MG RESISTOR	56Ω,1/16W
R2601	NRSA6AJ-182W	MG RESISTOR	1.8kΩ,1/16W
R2602	NRSA6AJ-182W	MG RESISTOR	1.8kΩ,1/16W
R2603	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2604	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2605	NRSA6AJ-682W	MG RESISTOR	6.8kΩ,1/16W
R2606	NRSA6AJ-682W	MG RESISTOR	6.8kΩ,1/16W
R2609	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2610	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2611	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2612	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2613	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R2614	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R2615	NRSA6AJ-123W	MG RESISTOR	12kΩ,1/16W
R2616	NRSA6AJ-123W	MG RESISTOR	12kΩ,1/16W
R2617	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R2618	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R2619	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R2620	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R2621	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R2622	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R2625	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2626	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2627	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R2628	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R2629	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R2701	NRSA6AJ-821W	MG RESISTOR	820Ω,1/16W
R2702	NRSA6AJ-821W	MG RESISTOR	820Ω,1/16W
R2703	NRSA6AJ-564W	MG RESISTOR	560kΩ,1/16W
R2704	NRSA6AJ-564W	MG RESISTOR	560kΩ,1/16W
R2705	NRSA6AJ-151W	MG RESISTOR	150Ω,1/16W
R2706	NRSA6AJ-151W	MG RESISTOR	150Ω,1/16W
R2707	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2708	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2709	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R2710	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R2711	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2712	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2716	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R2717	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R2901	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2902	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R2903	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R2905	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R2906	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2907	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2908	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3002	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3003	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R3004	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3005	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R3006	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R3007	NRSA6AJ-562W	MG RESISTOR	5.6kΩ,1/16W
R3008	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R3009	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3010	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3011	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R3013	NRSA6AJ-242W	MG RESISTOR	2.4kΩ,1/16W
R3014	NRSA6AJ-392W	MG RESISTOR	3.9kΩ,1/16W
R3015	NRSA6AJ-392W	MG RESISTOR	3.9kΩ,1/16W
R3016	NRVA6AD-560W	CMF RESISTOR	56Ω,1/16W
R3017	NRVA6AD-560W	CMF RESISTOR	56Ω,1/16W
R3018	NRVA6AD-560W	CMF RESISTOR	56Ω,1/16W
R3019	NRVA6AD-560W	CMF RESISTOR	56Ω,1/16W
R3020	NRVA6AD-512W	CMF RESISTOR	5.1kΩ,1/16W
R3021	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3022	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3023	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3024	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3027	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3029	NRSA6AJ-822W	MG RESISTOR	8.2kΩ,1/16W
R3030	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R3031	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R3032	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R3033	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3034	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R3036	NRSA6AJ-562W	MG RESISTOR	5.6kΩ,1/16W
R3037	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R3040	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R3041	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R3042	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R3043	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
R3044	NRSA6AJ-272W	MG RESISTOR	2.7kΩ,1/16W
R3045	NRSA6AJ-123W	MG RESISTOR	12kΩ,1/16W
R3046	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
R3047	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R3048	NRSA6AJ-221W	MG RESISTOR	220Ω,1/16W
R3049	NRSA6AJ-221W	MG RESISTOR	220Ω,1/16W
R3052	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3053	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3054	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3055	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3057	NRSA6AJ-560W	MG RESISTOR	56Ω,1/16W
R3059	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R3064	NRSA6AJ-0R0W	MG RESISTOR,B,C,D,E,F,G	0Ω,1/16W
R3701	NRSA6AJ-271W	MG RESISTOR	270Ω,1/16W
R3702	NRSA6AJ-271W	MG RESISTOR	270Ω,1/16W
R3703	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R3704	NRSA6AJ-301W	MG RESISTOR	300Ω,1/16W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R3705	NRSA6AJ-301W	MG RESISTOR	300Ω,1/16W
R3706	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R3707	NRSA6AJ-680W	MG RESISTOR	68Ω,1/16W
R3708	NRSA6AJ-680W	MG RESISTOR	68Ω,1/16W
R3710	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3711	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3712	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R3713	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R3714	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
R3715	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3721	NRSA6AD-271W	MG RESISTOR	270Ω,1/16W
R3723	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R3725	NRSA6AD-121W	MG RESISTOR	120Ω,1/16W
R3726	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R3727	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R3728	NRVA6AD-181W	CMF RESISTOR	180Ω,1/16W
R3730	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R3731	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R3732	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R3733	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R3734	NRSA6AJ-822W	MG RESISTOR	8.2kΩ,1/16W
R3735	NRSA6AJ-182W	MG RESISTOR	1.8kΩ,1/16W
R3736	NRSA6AJ-183W	MG RESISTOR	18kΩ,1/16W
R3737	NRSA6AJ-183W	MG RESISTOR	18kΩ,1/16W
R3738	NRSA6AJ-681W	MG RESISTOR	680Ω,1/16W
R3739	NRSA6AJ-821W	MG RESISTOR	820Ω,1/16W
R3740	NRSA6AJ-821W	MG RESISTOR	820Ω,1/16W
R3741	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R3742	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R3743	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R3744	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R3745	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
R3746	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R3747	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R3748	NRSA6AJ-474W	MG RESISTOR	470kΩ,1/16W
R3801	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R3802	NRSA6AD-821W	MG RESISTOR	820Ω,1/16W
R3803	NRSA6AD-273W	MG RESISTOR	27kΩ,1/16W
R3804	NRSA6AD-153W	MG RESISTOR	15kΩ,1/16W
R3805	NRSA6AD-821W	MG RESISTOR	820Ω,1/16W
R3807	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4203	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R4205	NRSA6AJ-221W	MG RESISTOR	220Ω,1/16W
R4206	NRSA6AJ-221W	MG RESISTOR	220Ω,1/16W
R4207	NRSA6AJ-510W	MG RESISTOR	51Ω,1/16W
R4301	NRSA6AJ-331W	MG RESISTOR	330Ω,1/16W
R4303	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R4304	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R4305	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R4306	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R4307	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R4308	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4309	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R4310	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R4311	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R4312	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R4313	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R4316	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4804	NRSA6AJ-681W	MG RESISTOR	680Ω,1/16W
R4805	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R4806	NRSA6AJ-683W	MG RESISTOR	68kΩ,1/16W
R4807	NRSA6AJ-563W	MG RESISTOR	56kΩ,1/16W
R4808	NRSA6AJ-243W	MG RESISTOR	24kΩ,1/16W
R4809	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R4810	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R4811	NRSA6AJ-684W	MG RESISTOR	680kΩ,1/16W
R4812	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R4814	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R4815	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R4816	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R4817	NRSA6AJ-334W	MG RESISTOR	330kΩ,1/16W
R4818	NRSA6AJ-154W	MG RESISTOR	150kΩ,1/16W
R4819	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R4820	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R4821	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R4822	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R4823	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4824	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R4825	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R4826	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R4827	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4828	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4833	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R4836	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4837	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4841	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4842	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4843	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4844	NRSA6AJ-151W	MG RESISTOR	150Ω,1/16W
R4846	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4854	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4856	NRSA63J-6R8X	MG RESISTOR	6.8Ω,1/16W
R4857	NRSA63J-6R8X	MG RESISTOR	6.8Ω,1/16W
R4858	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R4859	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4860	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4862	NRSA63J-6R8X	MG RESISTOR	6.8Ω,1/16W
R4863	NRSA63J-6R8X	MG RESISTOR	6.8Ω,1/16W
R4864	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4865	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4866	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4867	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4868	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4870	NRSA6AJ-271W	MG RESISTOR	270Ω,1/16W
R4871	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4874	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R5001	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R5002	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R5003	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R5004	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R5005	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R5006	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R5009	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R5010	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R5017	NRSA6AJ-221W	MG RESISTOR	220Ω,1/16W
R5020	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R6001	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R6002	NRVA6AD-183W	CMF RESISTOR	18kΩ,1/16W
R6003	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R6004	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R6005	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R6006	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R6007	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R6011	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R6012	NRVA6AD-823W	CMF RESISTOR	82kΩ,1/16W
R6013	NRVA6AD-473W	CMF RESISTOR	47kΩ,1/16W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
RA1008	NRZ0034-104W	NETWORK RESISTOR	100kΩ
RA1009	NRZ0034-104W	NETWORK RESISTOR	100kΩ
RA1010	NRZ0034-104W	NETWORK RESISTOR	100kΩ
RA1401	NRZ0034-473W	NETWORK RESISTOR	47kΩ
RA2001	NRZ0034-474W	NETWORK RESISTOR,B,C,D,E,F,G	470kΩ
RA2002	NRZ0034-474W	NETWORK RESISTOR,B,C,D,E,F,G	470kΩ
RA3001	NRZ0034-100W	NETWORK RESISTOR	10Ω
RA3002	NRZ0034-100W	NETWORK RESISTOR	10Ω
RA3003	NRZ0034-100W	NETWORK RESISTOR	10Ω
RA4201	NRZ0034-221W	NETWORK RESISTOR	220Ω
RA4202	NRZ0034-221W	NETWORK RESISTOR	220Ω
RA4301	NRZ0034-181W	NETWORK RESISTOR	180Ω
RA4302	NRZ0034-181W	NETWORK RESISTOR	180Ω
RA4303	NRZ0034-181W	NETWORK RESISTOR	180Ω
RA4304	NRZ0034-181W	NETWORK RESISTOR	180Ω
RA4305	NRZ0034-100W	NETWORK RESISTOR	10Ω
RA4306	NRZ0034-100W	NETWORK RESISTOR	10Ω
RA4307	NRZ0034-100W	NETWORK RESISTOR	10Ω
RA4308	NRZ0034-100W	NETWORK RESISTOR	10Ω
C1003	NBP41CM-106X	T CAPACITOR,A	10μF,16V
	NBE90JM-106X	T CAPACITOR,B,C,D,E,F,G	10μF,6.3V
C1004	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C1006	NDCA1HJ-130W	CAPACITOR	13pF,50V
C1007	NCFA1HZ-103W	CAPACITOR	0.01μF,50V
C1008	NCFA1HZ-103W	CAPACITOR	0.01μF,50V
C1011	NCFA1HZ-103W	CAPACITOR	0.01μF,50V
C1012	NCFA1HZ-103W	CAPACITOR	0.01μF,50V
C1013	NCFA1HZ-103W	CAPACITOR	0.01μF,50V
C1014	NCFA1HZ-103W	CAPACITOR	0.01μF,50V
C1015	NCFA1HZ-103W	CAPACITOR	0.01μF,50V
C1016	NCFA1HZ-103W	CAPACITOR	0.01μF,50V
C1017	NCFA1HZ-103W	CAPACITOR	0.01μF,50V
C1018	NCFA1HZ-103W	CAPACITOR	0.01μF,50V
C1019	NCFA1HZ-103W	CAPACITOR	0.01μF,50V
C1023	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C1026	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C1027	NCFA1HZ-103W	CAPACITOR	0.01μF,50V
C1028	NCFA1HZ-103W	CAPACITOR	0.01μF,50V
C1029	NCFA1HZ-103W	CAPACITOR	0.01μF,50V
C1030	NCFA1HZ-103W	CAPACITOR	0.01μF,50V
C1031	NCF31AZ-105X	CAPACITOR	1μF,10V
C1034	NCFA1HZ-103W	CAPACITOR	0.01μF,50V
C1036	NCFA1HZ-103W	CAPACITOR	0.01μF,50V
C1037	NCFA1HZ-103W	CAPACITOR	0.01μF,50V
C1038	NCFA1HZ-103W	CAPACITOR	0.01μF,50V
C1401	NDCA1HJ-100W	CAPACITOR	10pF,50V
C1402	NDCA1HJ-100W	CAPACITOR	10pF,50V
C1403	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C1404	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C1405	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C1406	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C1407	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C1409	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C1410	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C1411	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C1412	NCBA1CK-223W	CAPACITOR	0.022μF,16V
C1413	NCBA1CK-223W	CAPACITOR	0.022μF,16V
C1414	NCBA1CK-223W	CAPACITOR	0.022μF,16V
C1415	NCBA1CK-223W	CAPACITOR	0.022μF,16V
C1416	NCBA1AK-104W	CAPACITOR,B,C,D,E,F,G	0.1μF,10V
C2001	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2002	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2003	NCBA1CK-103W	CAPACITOR	0.01μF,16V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C2004	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2005	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2006	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2007	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C2008	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2009	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2010	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2011	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2012	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2013	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2014	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C2015	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C2016	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C2017	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C2018	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C2019	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2020	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2021	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2022	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2023	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2024	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2025	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2026	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2027	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2028	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2029	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2030	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2031	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2032	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2033	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2035	NCB11CK-105X	CAPACITOR	1μF,16V
C2036	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2037	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2038	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2039	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2101	NCB30JK-105X	CAPACITOR	1μF,6.3V
C2102	NCB30JK-105X	CAPACITOR	1μF,6.3V
C2103	NCBA1HK-222W	CAPACITOR	0.0022μF,50V
C2104	NCBA1HK-222W	CAPACITOR	0.0022μF,50V
C2105	NBE20JM-475X	T CAPACITOR	4.7μF,6.3V
C2106	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C2107	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C2108	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C2151	NCB30JK-105X	CAPACITOR	1μF,6.3V
C2153	NCBA1HK-222W	CAPACITOR	0.0022μF,50V
C2154	NCBA1HK-222W	CAPACITOR	0.0022μF,50V
C2155	NBE20JM-475X	T CAPACITOR	4.7μF,6.3V
C2156	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C2157	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C2201	NCB20JK-225X	CAPACITOR	2.2μF,6.3V
C2202	NCB20JK-225X	CAPACITOR	2.2μF,6.3V
C2203	NCB31AK-474X	CAPACITOR	0.47μF,10V
C2204	NCB31AK-474X	CAPACITOR	0.47μF,10V
C2205	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C2206	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C2207	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C2208	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C2210	NBE20JM-475X	T CAPACITOR	4.7μF,6.3V
C2211	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C2212	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C2214	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C2215	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C2216	NCBA1AK-104W	CAPACITOR	0.1μF,10V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C2217	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C2219	NCB30JK-105X	CAPACITOR	1µF,6.3V
C2220	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C2221	NCB30JK-105X	CAPACITOR	1µF,6.3V
C2222	NCB30JK-105X	CAPACITOR	1µF,6.3V
C2301	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C2303	NCB30JK-105X	CAPACITOR	1µF,6.3V
C2304	NCB30JK-105X	CAPACITOR	1µF,6.3V
C2305	NCB30JK-105X	CAPACITOR	1µF,6.3V
C2306	NCB30JK-105X	CAPACITOR	1µF,6.3V
C2307	NCB30JK-105X	CAPACITOR	1µF,6.3V
C2308	NCB30JK-105X	CAPACITOR	1µF,6.3V
C2311	NCB31CK-104X	CAPACITOR	0.1µF,16V
C2312	NCB30JK-105X	CAPACITOR	1µF,6.3V
C2313	NCB30JK-105X	CAPACITOR	1µF,6.3V
C2314	NCB30JK-105X	CAPACITOR	1µF,6.3V
C2402	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C2405	NBE41AM-106X	T CAPACITOR,A	10µF,10V
	NBE20JM-106X	T CAPACITOR,B,C,D,E,F,G	10µF,6.3V
C2407	NBE40JM-476X	T CAPACITOR	47µF,6.3V
C2603	NCB31EK-103X	CAPACITOR	0.01µF,25V
C2604	NCB31EK-103X	CAPACITOR	0.01µF,25V
C2605	NCBA1HK-102W	CAPACITOR	0.001µF,50V
C2606	NCBA1HK-102W	CAPACITOR	0.001µF,50V
C2607	NBE20JM-475X	T CAPACITOR	4.7µF,6.3V
C2608	NBE20JM-475X	T CAPACITOR	4.7µF,6.3V
C2609	NCB31CK-273X	CAPACITOR	0.027µF,16V
C2610	NCB31CK-273X	CAPACITOR	0.027µF,16V
C2613	NCB31CK-333X	CAPACITOR	0.033µF,16V
C2614	NCB31CK-333X	CAPACITOR	0.033µF,16V
C2615	NCBA1HK-332W	CAPACITOR	0.0033µF,50V
C2616	NCBA1HK-332W	CAPACITOR	0.0033µF,50V
C2619	NCBA1HK-152W	CAPACITOR	0.0015µF,50V
C2620	NCBA1HK-152W	CAPACITOR	0.0015µF,50V
C2621	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C2622	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C2623	NCB30JK-105X	CAPACITOR	1µF,6.3V
C2624	NCB30JK-105X	CAPACITOR	1µF,6.3V
C2625	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C2626	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C2627	NBE20GM-336X	T CAPACITOR	33µF,4.0V
C2630	NCB31CK-473X	CAPACITOR	0.047µF,16V
C2631	NCB31CK-473X	CAPACITOR	0.047µF,16V
C2701	NCB20JK-225X	CAPACITOR	2.2µF,6.3V
C2702	NCB20JK-225X	CAPACITOR	2.2µF,6.3V
C2901	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C2903	NCB30JK-105X	CAPACITOR	1µF,6.3V
C2904	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3001	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C3003	NCB30JK-105X	CAPACITOR	1µF,6.3V
C3004	NCB30JK-105X	CAPACITOR	1µF,6.3V
C3005	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C3007	NCB10JK-106X	CAPACITOR	10µF,6.3V
C3008	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C3011	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3012	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3013	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3014	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3015	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3016	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3017	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3020	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3021	NCBA1AK-104W	CAPACITOR	0.1µF,10V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C3022	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3023	NDCA1HJ-330W	CAPACITOR	33pF,50V
C3024	NCBA1HK-102W	CAPACITOR	0.001µF,50V
C3025	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3026	NCB30JK-105X	CAPACITOR	1µF,6.3V
C3027	NCBA1EK-472W	CAPACITOR	0.0047µF,25V
C3028	NDCA1EJ-271W	CAPACITOR	270pF,25V
C3029	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3030	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3031	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3032	NCBA1HK-102W	CAPACITOR	0.001µF,50V
C3033	NDCA1HJ-120W	CAPACITOR	12pF,50V
C3036	NDCA1HJ-6R0W	CAPACITOR	6pF,50V
C3037	NDCA1HJ-6R0W	CAPACITOR	6pF,50V
C3038	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3039	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3040	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3041	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3042	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3043	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3044	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3045	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3046	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3048	NCB21CK-224X	CAPACITOR,A	0.22µF,16V
	NCB31CK-473X	CAPACITOR,B,C,D,E,F,G	0.047µF,16V
C3049	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3050	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3051	NCBA1HK-102W	CAPACITOR	0.001µF,50V
C3052	NCBA1AK-473W	CAPACITOR	0.047µF,10V
C3054	NCB30JK-105X	CAPACITOR	1µF,6.3V
C3055	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3057	NDCA1HJ-100W	CAPACITOR	10pF,50V
C3058	NDCA1HJ-9R0W	CAPACITOR	9pF,50V
C3059	NBE20GM-226X	T CAPACITOR	22µF,4.0V
C3060	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3061	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3064	NCBA1HK-102W	CAPACITOR	0.001µF,50V
C3068	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
C3701	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C3702	NDCA1HJ-560W	CAPACITOR	56pF,50V
C3703	NDCA1HJ-270W	CAPACITOR	27pF,50V
C3704	NDCA1HJ-680W	CAPACITOR	68pF,50V
C3705	NDCA1HJ-270W	CAPACITOR	27pF,50V
C3706	NCB30JK-105X	CAPACITOR	1µF,6.3V
C3707	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3708	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3709	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3710	NBE20GM-226X	T CAPACITOR	22µF,4.0V
C3712	NBE40GM-107X	T CAPACITOR	100µF,4.0V
C3715	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3731	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3732	NCBA1HK-102W	CAPACITOR	0.001µF,50V
C3733	NDCA1HJ-3R0W	CAPACITOR	3pF,50V
C3734	NDCA1HJ-5R0W	CAPACITOR	5pF,50V
C3735	NDCA1HJ-330W	CAPACITOR	33pF,50V
C3736	NCBA1HK-102W	CAPACITOR	0.001µF,50V
C3738	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3739	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3740	NCB30JK-105X	CAPACITOR	1µF,6.3V
C3741	NCB30JK-105X	CAPACITOR	1µF,6.3V
C3742	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3743	NDCA1HJ-3R0W	CAPACITOR	3pF,50V
C3744	NDCA1HJ-5R0W	CAPACITOR	5pF,50V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C3745	NDCA1HJ-330W	CAPACITOR	33pF,50V
C3746	NCB20JM-475X	CAPACITOR	4.7µF,6.3V
C3747	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3801	NCB30JK-105X	CAPACITOR	1µF,6.3V
C3802	NCB30JK-105X	CAPACITOR	1µF,6.3V
C3803	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C3804	NBE20GM-476X	T CAPACITOR	47µF,4.0V
C3805	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3806	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3807	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3808	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3809	NCB31CK-104X	CAPACITOR	0.1µF,16V
C3810	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3811	NCB31CK-104X	CAPACITOR	0.1µF,16V
C3812	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3813	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3814	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3815	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3816	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3817	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3818	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3819	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C4201	NBE40JM-476X	T CAPACITOR	47µF,6.3V
C4202	NBE40JM-476X	T CAPACITOR	47µF,6.3V
C4203	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C4204	NBE40GM-107X	T CAPACITOR	100µF,4.0V
C4205	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4206	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4207	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4208	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4209	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4210	NCB30JK-105X	CAPACITOR	1µF,6.3V
C4211	NCB21CK-105X	CAPACITOR	1µF,16V
C4212	NCBA1CK-123W	CAPACITOR	0.012µF,16V
C4213	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4214	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4215	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4218	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4219	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4220	NCB30JK-105X	CAPACITOR	1µF,6.3V
C4221	NCB30JK-105X	CAPACITOR	1µF,6.3V
C4222	NCB30JK-105X	CAPACITOR	1µF,6.3V
C4301	NCB30JK-105X	CAPACITOR	1µF,6.3V
C4302	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C4304	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4305	NCB30JK-105X	CAPACITOR	1µF,6.3V
C4306	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C4308	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C4310	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4312	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4313	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C4316	NCB30JK-105X	CAPACITOR	1µF,6.3V
C4317	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4318	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4803	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C4804	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C4806	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C4807	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C4808	NCB30JK-105X	CAPACITOR	1µF,6.3V
C4809	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C4810	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C4811	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C4812	NCFA1AZ-104W	CAPACITOR	0.1µF,10V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C4813	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C4814	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C4815	NCB31HK-152X	CAPACITOR	0.0015µF,50V
C4816	NCBA1HK-102W	CAPACITOR	0.001µF,50V
C4819	NCF31CZ-104X	CAPACITOR	0.1µF,16V
C4820	NCBA1CK-103W	CAPACITOR,B,C,D,E,F,G	0.01µF,16V
C4822	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C4851	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C4852	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C4853	NBE21AM-335X	T CAPACITOR	3.3µF,10V
C4854	NBE21AM-106X	T CAPACITOR	10µF,10V
C4855	NCB31CK-104X	CAPACITOR	0.1µF,16V
C4858	NDCA1HJ-680W	CAPACITOR	68pF,50V
C4859	NCBA1HK-102W	CAPACITOR	0.001µF,50V
C4860	NCBA1HK-102W	CAPACITOR	0.001µF,50V
C4861	NCBA1HK-102W	CAPACITOR	0.001µF,50V
C4862	NCBA1HK-102W	CAPACITOR	0.001µF,50V
C4864	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C4865	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C5001	NCB30JK-105X	CAPACITOR	1µF,6.3V
C5002	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C5003	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C5004	NCB30JK-105X	CAPACITOR	1µF,6.3V
C5005	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C5006	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C5008	NBE40JM-476X	T CAPACITOR	47µF,6.3V
C5009	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C5011	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C5012	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C5013	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C5014	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C5017	NBE41AM-476X	T CAPACITOR	47µF,10V
C5021	NBP41EM-475X	T CAPACITOR	4.7µF,25V
C5023	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C5025	NBP21VM-105X	T CAPACITOR	1µF,35V
C5027	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C5028	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C6001	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C6002	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C6005	NBP21CM-685X	T CAPACITOR	6.8µF,16V
C6006	NCF31AZ-105X	CAPACITOR	1µF,10V
C6007	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C6008	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C6009	NCBA1CK-103W	CAPACITOR	0.01µF,16V
L1002	NQL315K-100X	COIL	10µH
L1401	NQR0006-001X	FERRITE BEAD	
L2001	NQR0006-001X	FERRITE BEAD	
L2101	NQL402M-100X	COIL	10µH
L2402	NQL315K-220X	COIL	22µH
L2601	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2602	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2603	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L3001	NQR0129-002X	FERRITE BEAD	
L3002	NQR0129-002X	FERRITE BEAD	
L3003	NQR0129-002X	FERRITE BEAD	
L3004	NQR0006-001X	FERRITE BEAD	
L3005	NQR0006-001X	FERRITE BEAD	
L3006	NQR0006-001X	FERRITE BEAD	
L3007	NQL085J-2R2X	COIL	2.2µH
L3008	NQL085J-120X	COIL	12µH
L3014	NQL38DK-100X	COIL	10µH
L3015	NQR0006-001X	FERRITE BEAD	
L3701	NQL38DK-100X	COIL	10µH

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
L3731	NQL085J-6R8X	COIL	6.8µH
L3732	NQL085J-6R8X	COIL	6.8µH
L3801	NQR0129-002X	FERRITE BEAD	
L3802	NQR0129-002X	FERRITE BEAD	
L3803	NQR0006-001X	FERRITE BEAD	
L3804	NQL38DK-100X	COIL	10µH
L4201	NQL402M-100X	COIL	10µH
L4301	NQR0129-002X	FERRITE BEAD	
L4302	NQR0129-002X	FERRITE BEAD	
L4303	NQR0129-002X	FERRITE BEAD	
L4304	NQR0129-002X	FERRITE BEAD	
L4802	NQL302N-100X	COIL	10µH
L4851	NQR0129-002X	FERRITE BEAD	
L4852	NQL315K-100X	COIL	10µH
L4853	NQL315K-100X	COIL	10µH
L5001	NQR0129-002X	FERRITE BEAD	
L5002	NQL045K-100X	COIL	10µH
L5003	NQR0129-002X	FERRITE BEAD	
L5004	NQL045K-100X	COIL	10µH
L5005	NQR0129-002X	FERRITE BEAD	
L5006	NQL045K-100X	COIL	10µH
L5007	NQR0129-002X	FERRITE BEAD	
L6001	NQL402M-100X	COIL	10µH
X1001	NAX0474-001X	C OSCILLATOR	
X1002	NAX0325-001X	CRYSTAL RESONATOR	
X1401	NAX0175-001X	CRYSTAL RESONATOR	
X3001	NAX0169-001X	CRYSTAL RESONATOR	
X3002	NAX0480-001X	CRYSTAL RESONATOR	
X4301	NAX0528-001X	CXO	
J101	NNZ0041-001X	D CONNECTOR	
FFC101	WJT0062-001B	E-CARD WIRE,CN112-JUNC.CN1101	
FFC102	WJT0060-001A	E-CARD WIRE,CN113-EJECT CN2422	
WR1	YU40017-015-1	THIN WIRE,C1011-TL1008,A	
WR2	YU40017-045-8	THIN WIRE,C1003-RA1009,A	
WR3	YU40017-035-3	THIN WIRE,C1003-C2035,A	
CN101	QGA1002F1-02X	CONNECTOR	
CN102	QGF0507F3-20X	FFC/FPC CONNECTOR	
CN103	QGF0505F2-16X	FPC CONNECTOR,A	
	QGF0517F2-16X	FPC CONNECTOR,B,C,D,E,F,G	
CN104	QGF0505F2-24X	FPC CONNECTOR	
CN105	QGB0516L1-80X	CONNECTOR	
CN106	QGB0404M1-80X	CONNECTOR	
CN107	QGB0509M1-30X	CONNECTOR	
CN108	QGB0512L2-50X	CONNECTOR	
CN109	QGB0507L1-80X	CONNECTOR	
CN110	QGF0505F2-22X	FPC CONNECTOR	
CN111	QGF0505F2-24X	FPC CONNECTOR	
CN112	QGF0505F1-16X	FPC CONNECTOR	
CN113	QGF0505F1-06X	FPC CONNECTOR	
OT1	LY30029-0S2A	SPACER(A)	
OT2	LY30029-0T1A	SPACER(A)	
OT3	LY30029-0U8A	SPACER(A)	
OT4	LY30029-0U1A	SPACER(A),A	

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DSC BOARD ASSEMBLY <02>

PW	YB10350C-01	DSC BOARD ASSY	
IC8001	TMS320DSC24GHK	IC	
	or TMX320DSC24GHK	IC	
IC8002	HY57653220BTC10	IC	
IC8003	MBV160TE70PTA38	IC(MICRO C ROM)	
	or MBV160TE90PTA38	IC(MICRO C ROM)	
IC8005	BU2288FV	IC	
IC8301	ISP1181ADGG	IC	
IC8302	S-80842ANNP-W	IC	
IC8501	MN5772ZZLD	IC	
	or YQ44917A	CSP IC ASSY	
Q8001	2SA1774/RS/-X	TRANSISTOR	
D8301	1SS355	DIODE	
R8001	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8002	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8003	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8007	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R8009	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R8016	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8017	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8022	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R8032	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8037	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8038	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8043	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8046	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8049	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8051	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8052	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R8053	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R8055	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R8057	NRSA6AJ-560W	MG RESISTOR	56Ω,1/16W
R8059	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R8061	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R8062	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R8302	NRS181J-220X	MG RESISTOR	22Ω,1/8W
R8303	NRS181J-220X	MG RESISTOR	22Ω,1/8W
R8305	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R8306	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8307	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8308	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8309	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8310	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R8311	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R8529	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R8531	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R8532	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8533	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
RA8001	NRZ0034-101W	NETWORK RESISTOR	100Ω
RA8002	NRZ0034-101W	NETWORK RESISTOR	100Ω
RA8003	NRZ0034-101W	NETWORK RESISTOR	100Ω
RA8004	NRZ0034-101W	NETWORK RESISTOR	100Ω
C8001	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C8002	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C8003	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C8004	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C8005	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C8006	NBE20GM-476X	T CAPACITOR	47µF,4.0V
C8007	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C8008	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C8010	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C8014	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C8017	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C8020	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C8021	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C8022	NCB21CK-105X	CAPACITOR	1µF,16V
C8023	NCBA1CK-103W	CAPACITOR	0.01µF,16V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C8024	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C8025	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C8026	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C8301	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C8305	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C8306	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C8307	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C8310	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C8311	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C8501	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C8502	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C8503	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C8504	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C8505	NCBA1AK-104W	CAPACITOR	0.1µF,10V
L8001	NQR0129-002X	FERRITE BEAD	
L8002	NQR0129-002X	FERRITE BEAD	
L8003	NQR0129-002X	FERRITE BEAD	
L8004	NQR0129-002X	FERRITE BEAD	
L8005	NQR0129-002X	FERRITE BEAD	
L8006	NQR0006-001X	FERRITE BEAD	
L8301	NQR0129-002X	FERRITE BEAD	
L8501	NQR0129-002X	FERRITE BEAD	
X8301	NAX0522-001X	RESONATOR	
WR1	YU40017-040-1	THIN WIRE,JP8001-JP8002	
CN8401	QGB0516M1-80X	CONNECTOR	
CN8402	QGF0507F1-20X	FPC CONNECTOR	

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PRE/MDA BOARD ASSEMBLY <03>

PW	YB10303A-03	PRE/MDA BOARD ASSY	
IC1601	BD6630KV	IC	
IC1701	TA75W01FU	IC	
IC1702	TA75W393FU	IC	
IC3501	JCY0132	IC	
IC3502	SN74AHC1G04K	IC	
Q1601	UMC3N	DIGI TRANSISTOR	
D1602	DAP222	DIODE	
D1603	DAP222	DIODE	
D1604	DAP222	DIODE	
R1601	NRSA6AJ-681W	MG RESISTOR	680Ω,1/16W
R1602	NRSA6AJ-124W	MG RESISTOR	120kΩ,1/16W
R1603	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R1604	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1605	NRV142F-R22X	CMF RESISTOR	0.22Ω,1/4W
R1606	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1609	NRV142F-R33X	CMF RESISTOR	0.33Ω,1/4W
R1610	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
R1611	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
R1612	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1613	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1614	NRSA6AJ-682W	MG RESISTOR	6.8kΩ,1/16W
R1615	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1616	NRSA6AJ-681W	MG RESISTOR	680Ω,1/16W
R1617	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R1618	NRSA6AJ-154W	MG RESISTOR	150kΩ,1/16W
R1619	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R1620	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1621	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1622	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R1624	NRVA6AD-123W	CMF RESISTOR	12kΩ,1/16W
R1625	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1626	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1627	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1628	NRVA6AD-361W	CMF RESISTOR	360Ω,1/16W
R1629	NRSA6AJ-564W	MG RESISTOR	560kΩ,1/16W
R1630	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1631	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1632	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1633	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1634	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1635	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R1636	NRSA6AJ-123W	MG RESISTOR	12kΩ,1/16W
R1637	NRSA6AJ-124W	MG RESISTOR	120kΩ,1/16W
R1642	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1644	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1701	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
R1702	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R1703	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R1704	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R1705	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R1706	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
R1707	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1708	NRSA6AJ-124W	MG RESISTOR	120kΩ,1/16W
R1709	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1710	NRSA6AJ-124W	MG RESISTOR	120kΩ,1/16W
R1711	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1712	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1714	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1715	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3501	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
R3502	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R3503	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R3504	NRVA6AD-241W	CMF RESISTOR	240Ω,1/16W
R3505	NRVA6AD-241W	CMF RESISTOR	240Ω,1/16W
R3506	NRVA6AD-241W	CMF RESISTOR	240Ω,1/16W
R3507	NRVA6AD-241W	CMF RESISTOR	240Ω,1/16W
R3508	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R3510	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3513	NRSA6AJ-393W	MG RESISTOR	39kΩ,1/16W
R3514	NRSA6AJ-682W	MG RESISTOR	6.8kΩ,1/16W
R3515	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3517	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3518	NRSA6AJ-560W	MG RESISTOR	56Ω,1/16W
C1601	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1602	NBE90JM-106X	T CAPACITOR	10µF,6.3V
C1603	NBE21AM-106X	T CAPACITOR	10µF,10V
C1605	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C1606	NCBA1HK-152W	CAPACITOR	0.0015µF,50V
C1607	NCBA1AK-473W	CAPACITOR	0.047µF,10V
C1614	NBE21AM-106X	T CAPACITOR	10µF,10V
C1618	NCBA1HK-222W	CAPACITOR	0.0022µF,50V
C1619	NCBA1HK-222W	CAPACITOR	0.0022µF,50V
C1620	NCBA1HK-222W	CAPACITOR	0.0022µF,50V
C1621	NCB21AK-105X	CAPACITOR	1µF,10V
C1622	NCBA1CK-223W	CAPACITOR	0.022µF,16V
C1623	NCBA1AK-473W	CAPACITOR	0.047µF,10V
C1624	NCB31EK-103X	CAPACITOR	0.01µF,25V
C1625	NCBA1AK-473W	CAPACITOR	0.047µF,10V
C1626	NCBA1HK-331W	CAPACITOR	330pF,50V
C1627	NCBA1CK-822W	CAPACITOR	0.0082µF,16V
C1628	NCB21CK-224X	CAPACITOR	0.22µF,16V
C1632	NBE21AM-106X	T CAPACITOR	10µF,10V

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
		C1633	NCF21CZ-684X	CAPACITOR	0.68µF,16V
		C1635	NCBA1AK-104W	CAPACITOR	0.1µF,10V
		C1641	NCB31AK-474X	CAPACITOR	0.47µF,10V
		C1701	NCBA1AK-104W	CAPACITOR	0.1µF,10V
		C1702	NCBA1AK-104W	CAPACITOR	0.1µF,10V
		C3501	NCBA1CK-223W	CAPACITOR	0.022µF,16V
		C3502	NCBA1AK-473W	CAPACITOR	0.047µF,10V
		C3503	NCBA1AK-104W	CAPACITOR	0.1µF,10V
		C3505	NCBA1AK-104W	CAPACITOR	0.1µF,10V
		C3506	NCBA1AK-104W	CAPACITOR	0.1µF,10V
		C3507	NCBA1AK-104W	CAPACITOR	0.1µF,10V
		C3508	NBE20JM-106X	T CAPACITOR	10µF,6.3V
		C3509	NCBA1AK-104W	CAPACITOR	0.1µF,10V
		C3510	NBE20JM-106X	T CAPACITOR	10µF,6.3V
		C3511	NCBA1AK-104W	CAPACITOR	0.1µF,10V
		C3512	NCBA1AK-104W	CAPACITOR	0.1µF,10V
		C3514	NCBA1CK-103W	CAPACITOR	0.01µF,16V
		C3516	NCBA1AK-104W	CAPACITOR	0.1µF,10V
		C3517	NDCA1EJ-221W	CAPACITOR	220pF,25V
		C3519	NCBA1AK-104W	CAPACITOR	0.1µF,10V
		C3520	NBE20JM-106X	T CAPACITOR	10µF,6.3V
		C3522	NCBA1AK-473W	CAPACITOR	0.047µF,10V
		C3523	NCBA1AK-473W	CAPACITOR	0.047µF,10V
		C3524	NCBA1AK-473W	CAPACITOR	0.047µF,10V
		C3525	NCBA1AK-104W	CAPACITOR	0.1µF,10V
		C3526	NCBA1AK-104W	CAPACITOR	0.1µF,10V
		C3527	NCBA1HK-102W	CAPACITOR	0.001µF,50V
		C3528	NCBA1AK-104W	CAPACITOR	0.1µF,10V
		C3529	NCBA1AK-104W	CAPACITOR	0.1µF,10V
		C3530	NBE90JM-475X	T CAPACITOR	4.7µF,6.3V
		C3531	NCBA1AK-104W	CAPACITOR	0.1µF,10V
		C3532	NCBA1AK-104W	CAPACITOR	0.1µF,10V
		C3533	NBE90JM-475X	T CAPACITOR	4.7µF,6.3V
		L1601	NQL315M-1R0X	COIL	1.0µH
		L3501	NQR0006-001X	FERRITE BEAD	
		L3502	NQR0006-001X	FERRITE BEAD	
		L3503	NQR0006-001X	FERRITE BEAD	
		L3504	NQR0305-001X	FERRITE BEAD	
		L3505	NQL302N-100X	COIL	10µH
		CN401	QGB0404L1-80X	CONNECTOR	
		CN402	QGF0517F1-08X	FPC CONNECTOR	
		CN403	QGF0517F2-06X	FPC CONNECTOR	
		CN404	QGF0517F1-11X	FPC CONNECTOR	
		CN405	QGF0517F1-18X	FPC CONNECTOR	
		CN406	QGF0517F2-16X	FPC CONNECTOR	
		CN407	QGF0517F1-06X	FPC CONNECTOR	
		OT1	LY30029-0J4A	SPACER(A)	
		OT2	LY30029-0J5A	SPACER(A)	
		OT3	LY43138-001A	SHEET(MDA)	
		SD1	LY32011-001A	SHIELD CASE(PR)	

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JUNCTION BOARD ASSEMBLY <04>

	PW2	YB10352A2-04	JUNCTION BOARD ASSY
	IC1101	BA10358F-XE	IC
	Q1151	RPM-22PB	PHOTO TRANSISTOR
	Q1161	DTC144EE	DIGI TRANSISTOR
		or UN9213J	DIGI TRANSISTOR
	D1161	SML-110LT-X	LE DIODE

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
		R1101	NRSA63J-333X	MG RESISTOR	33kΩ,1/16W
		R1102	NRSA63J-472X	MG RESISTOR	4.7kΩ,1/16W
		R1104	NRSA63J-105X	MG RESISTOR	1MΩ,1/16W
		R1106	NRSA63J-105X	MG RESISTOR	1MΩ,1/16W
		R1107	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
		R1108	NRSA63J-472X	MG RESISTOR	4.7kΩ,1/16W
		R1109	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
		R1151	NRSA63J-302X	MG RESISTOR	3kΩ,1/16W
	⚠	R1161	NRSA63J-102X	MG RESISTOR	1kΩ,1/16W
		R1162	NRSA63J-391X	MG RESISTOR	390Ω,1/16W
		C1101	NCB31CK-104X	CAPACITOR	0.1µF,16V
		C1102	NCB31CK-223X	CAPACITOR	0.022µF,16V
		C1103	NCB31CK-223X	CAPACITOR	0.022µF,16V
		C1111	NCB30JK-105X	CAPACITOR	1µF,6.3V
		C1112	NBE20JM-106X	T CAPACITOR	10µF,6.3V
		C1113	NBE20JM-226X	T CAPACITOR	22µF,6.3V
		C1114	NCB31EK-103X	CAPACITOR	0.01µF,25V
		C1161	NCB31EK-103X	CAPACITOR	0.01µF,25V
		L1101	NRSA02J-0R0X	MG RESISTOR	0Ω,1/10W
		L1151	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
		BK1	LY32441-001A	BRACKET(JUNC)	
	⚠	BT1161	QAB0025-001	LI BATTERY	
		CN1101	QGF0512C1-16X	FPC CONNECTOR	
		CN1102	QGF0512C1-08X	FPC CONNECTOR	
		CN1103	QGA1001F1-03X	CONNECTOR	
		CN1104	QGF0505F2-06X	FPC CONNECTOR	
		CN1105	QGA1002F1-03X	CONNECTOR	
		OT1	LY30029-0S5A	SPACER(A)	
		OT2	LY30018-081A	SPECIAL SCREW,X2	
		OT4	LY30029-0T6A	SPACER(A)	
		SD1	LY43546-001A	SHIELD(JUNC)	

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REG BOARD ASSEMBLY <05>

	PW	YB10353A-01	REG BOARD ASSY,A
		YB10353A-02	REG BOARD ASSY,B,C,D,E,F,G
	IC6101	BD9713KV	IC
⚠	Q6101	MCH3308	MOS FET
⚠	Q6103	MCH3308	MOS FET
	Q6105	MCH3308	MOS FET
	Q6106	MCH3308	MOS FET
	Q6107	NDS352AP	MOS FET
	Q6108	MCH3308	MOS FET
	Q6109	HN1C01FU/G/-X	PAIR TRANSISTOR
		or PUMX1	PAIR TRANSISTOR
		or UMX1N	PAIR TRANSISTOR
		or XP4501	TRANSISTOR
	Q6110	2SA1577/RS/-X	TRANSISTOR
	Q6111	2SC4617/RS/-X	TRANSISTOR
	Q6113	HN1A01FU/G/-X	PAIR TRANSISTOR
		or UMT1N	PAIR TRANSISTOR
		or XP4401	TRANSISTOR
		or PUMT1	PAIR TRANSISTOR
	Q6114	2SC4617/RS/-X	TRANSISTOR
		or 2SD2216J/RS/-X	TRANSISTOR
	D6101	CRS01	SB DIODE
	D6102	CRS01	SB DIODE
	D6103	CRS01	SB DIODE
	D6104	CRS01	SB DIODE

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
		D6105	CRS01	SB DIODE	
		D6106	RB480Y	SB DIODE	
		D6108	RB480Y	SB DIODE	
		R6101	NRVA6AD-302W	CMF RESISTOR	3kΩ,1/16W
		R6102	NRVA6AD-243W	CMF RESISTOR	24kΩ,1/16W
		R6103	NRVA6AD-163W	CMF RESISTOR	16kΩ,1/16W
		R6104	NRVA6AD-153W	CMF RESISTOR	15kΩ,1/16W
		R6105	NRVA6AD-103W	CMF RESISTOR	10kΩ,1/16W
		R6106	NRVA6AD-623W	CMF RESISTOR	62kΩ,1/16W
		R6107	NRVA6AD-223W	CMF RESISTOR	22kΩ,1/16W
		R6108	NRVA6AD-123W	CMF RESISTOR	12kΩ,1/16W
		R6109	NRVA6AD-562W	CMF RESISTOR	5.6kΩ,1/16W
		R6110	NRVA6AD-473W	CMF RESISTOR	47kΩ,1/16W
		R6111	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
		R6112	NRVA6AD-563W	CMF RESISTOR	56kΩ,1/16W
		R6113	NRVA6AD-822W	CMF RESISTOR	8.2kΩ,1/16W
		R6114	NRVA6AD-683W	CMF RESISTOR	68kΩ,1/16W
		R6115	NRVA6AD-473W	CMF RESISTOR	47kΩ,1/16W
		R6116	NRVA6AD-433W	CMF RESISTOR	43kΩ,1/16W
		R6117	NRSA6AD-433W	MG RESISTOR	43kΩ,1/16W
		R6119	NRVA6AD-183W	CMF RESISTOR	18kΩ,1/16W
		R6120	NRSA6AJ-183W	MG RESISTOR	18kΩ,1/16W
		R6121	NRSA6AJ-183W	MG RESISTOR	18kΩ,1/16W
		R6122	NRVA6AD-473W	CMF RESISTOR	47kΩ,1/16W
		R6123	NRVA6AD-223W	CMF RESISTOR	22kΩ,1/16W
		R6124	NRVA6AD-123W	CMF RESISTOR	12kΩ,1/16W
		R6125	NRVA6AD-104W	CMF RESISTOR	100kΩ,1/16W
		R6126	NRVA6AD-103W	CMF RESISTOR	10kΩ,1/16W
		R6133	NRVA6AD-823W	CMF RESISTOR	82kΩ,1/16W
		R6134	NRVA6AD-753W	CMF RESISTOR	75kΩ,1/16W
		R6136	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
		R6137	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
		R6138	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R6139	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
		R6140	NRSA6AJ-273W	MG RESISTOR	27kΩ,1/16W
		R6141	NRSA6AJ-822W	MG RESISTOR	8.2kΩ,1/16W
		R6142	NRVA6AD-823W	CMF RESISTOR	82kΩ,1/16W
		R6143	NRVA6AD-513W	CMF RESISTOR	51kΩ,1/16W
		R6144	NRVA6AD-473W	CMF RESISTOR	47kΩ,1/16W
		R6145	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
		R6146	NRSA6AJ-272W	MG RESISTOR	2.7kΩ,1/16W
		C6101	NCB21CK-105X	CAPACITOR	1μF,16V
		C6102	NCBA1AK-104W	CAPACITOR	0.1μF,10V
		C6103	NCBA1HK-102W	CAPACITOR	0.001μF,50V
		C6104	NCBA1HK-561W	CAPACITOR	560pF,50V
		C6105	NCBA1HK-561W	CAPACITOR	560pF,50V
		C6106	NBP41CM-106X	T CAPACITOR	10μF,16V
		C6107	NCB21CK-105X	CAPACITOR	1μF,16V
		C6108	NDCA1HJ-101W	CAPACITOR	100pF,50V
		C6109	NDCA1HJ-150W	CAPACITOR	15pF,50V
		C6110	NCBA1HK-272W	CAPACITOR	0.0027μF,50V
		C6111	NCB21CK-105X	CAPACITOR	1μF,16V
		C6112	NCBA1HK-102W	CAPACITOR	0.001μF,50V
		C6113	NCBA1EK-472W	CAPACITOR	0.0047μF,25V
		C6114	NCBA1AK-104W	CAPACITOR	0.1μF,10V
		C6115	NCBA1CK-103W	CAPACITOR	0.01μF,16V
		C6116	NCBA1HK-102W	CAPACITOR	0.001μF,50V
		C6117	NCBA1CK-103W	CAPACITOR	0.01μF,16V
		C6118	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
		C6119	NCBA1CK-223W	CAPACITOR	0.022μF,16V
		C6120	NCBA1CK-223W	CAPACITOR	0.022μF,16V
		C6121	NCBA1CK-223W	CAPACITOR	0.022μF,16V
		C6122	NCB31AK-224X	CAPACITOR	0.22μF,10V
		C6123	NCB31CK-683X	CAPACITOR	0.068μF,16V
		C6124	NCB21CK-105X	CAPACITOR	1μF,16V
		C6125	NCB10JK-106X	CAPACITOR	10μF,6.3V
		C6126	NCB21CK-105X	CAPACITOR	1μF,16V
		C6127	NCB10JK-106X	CAPACITOR	10μF,6.3V
		C6128	NCB21CK-105X	CAPACITOR	1μF,16V
		C6129	NCB21CK-105X	CAPACITOR	1μF,16V
		C6131	NCB21CK-105X	CAPACITOR	1μF,16V
		C6132	NCB21CK-105X	CAPACITOR	1μF,16V
		C6134	NCB21CK-105X	CAPACITOR	1μF,16V
		C6135	NCB10JK-106X	CAPACITOR	10μF,6.3V
		C6136	NCB21CK-105X	CAPACITOR	1μF,16V
		C6137	NCB21CK-105X	CAPACITOR	1μF,16V
		C6138	NCB11EK-105X	CAPACITOR	1μF,25V
		C6139	NCB11EK-105X	CAPACITOR	1μF,25V
		C6140	NCB11EK-105X	CAPACITOR	1μF,25V
		C6141	NCB11EK-105X	CAPACITOR	1μF,25V
		C6142	NCB21CK-105X	CAPACITOR	1μF,16V
		C6143	NCB21CK-105X	CAPACITOR	1μF,16V
		C6144	NCBA1AK-104W	CAPACITOR	0.1μF,10V
		C6145	NCB21CK-105X	CAPACITOR	1μF,16V
		C6146	NCB21CK-105X	CAPACITOR	1μF,16V
		L6101	NQLZ011-4R7X	COIL	4.7μH
		L6102	NQLZ011-4R7X	COIL	4.7μH
		L6103	NQLZ010-390X	COIL	39μH
		L6107	NQLZ011-390X	COIL	39μH
		L6108	NQLZ011-470X	COIL	47μH
		L6109	NQLZ011-470X	COIL	47μH
		L6110	NQLZ011-390X	COIL	39μH
		L6111	NQL144K-220X	COIL	22μH
		L6112	NQLZ011-221X	COIL	220μH
		CN601	QGB0507M1-80X	CONNECTOR	
		CN602	QGF0505F2-12X	FPC CONNECTOR	
	⚠	F6101	NMFZ007-2R0X-K	FUSE	T2.0A,50V
	⚠	F6102	NMFZ007-2R0X-K	FUSE	T2.0A,50V
	⚠	F6103	NMFZ007-1R0X-K	FUSE	T1.0A,50V

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MONITOR BOARD ASSEMBLY <06>

PW	YB10354B	MONITOR BOARD ASSY
IC7301	CXA3268AR-B	IC
IC7302	AT25040N-10SC-X	IC
	or 25LC040-I/SN-X	IC
IC7401	CXA3503R-B	IC
IC7501	TL1451CPW	IC
	or TL1451ACPW	IC
IC7502	TC7SH04FU	IC(DIGITAL)
	or SN74AHC1G04K	IC
IC7503	TA75S393F	IC
Q7301	2SA1774/QR/-X	TRANSISTOR
Q7302	2SA1577/QR/-X	TRANSISTOR
Q7303	DTC144EE	DIGI TRANSISTOR
	or UN9213J	DIGI TRANSISTOR
	or RN1104	DIGI TRANSISTOR
Q7304	2SC4617/QR/-X	TRANSISTOR
	or 2SC4738/YG/-X	TRANSISTOR
Q7305	2SA1774/QR/-X	TRANSISTOR
	or 2SA1832/YG/-X	TRANSISTOR
Q7306	2SC4617/QR/-X	TRANSISTOR

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
	or 2SC4738/YG/-X	TRANSISTOR	
Q7307	2SA1774/QR/-X	TRANSISTOR	
	or 2SA1832/YG/-X	TRANSISTOR	
Q7401	2SA1774/QR/-X	TRANSISTOR	
	or 2SA1832/YG/-X	TRANSISTOR	
Q7501	UMD3N	DIGI TRANSISTOR	
	or XP4311	TRANSISTOR	
Q7502	SSM3K01F	MOS FET	
Q7503	2SC4617/QR/-X	TRANSISTOR	
Q7504	XP6401	TRANSISTOR	
D7301	MA365	VARI CAP DIODE	
D7302	UDZ2.7B	ZENER DIODE	
D7303	UDZ4.3B	ZENER DIODE	
D7401	MA365	VARI CAP DIODE	
D7501	MA142WK	DIODE	
D7502	MA111	DIODE	
R7301	NRSA63J-271X	MG RESISTOR	270Ω,1/16W
R7302	NRSA63J-102X	MG RESISTOR	1kΩ,1/16W
R7303	NRVA63D-333X	CMF RESISTOR	33kΩ,1/16W
R7304	NRVA63D-153X	CMF RESISTOR	15kΩ,1/16W
R7305	NRSA63J-100X	MG RESISTOR	10Ω,1/16W
R7306	NRSA63J-100X	MG RESISTOR	10Ω,1/16W
R7307	NRSA63J-100X	MG RESISTOR	10Ω,1/16W
R7316	NRSA63J-472X	MG RESISTOR	4.7kΩ,1/16W
R7320	NRSA63J-473X	MG RESISTOR	47kΩ,1/16W
R7321	NVP0016-473X	TRIM RESISTOR	
R7322	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R7323	NRSA63J-333X	MG RESISTOR	33kΩ,1/16W
R7324	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
R7325	NRSA63J-102X	MG RESISTOR	1kΩ,1/16W
R7326	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
R7330	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
R7331	NRSA63J-472X	MG RESISTOR	4.7kΩ,1/16W
R7332	NRSA63J-100X	MG RESISTOR	10Ω,1/16W
R7333	NRSA63J-223X	MG RESISTOR	22kΩ,1/16W
R7334	NRSA63J-223X	MG RESISTOR	22kΩ,1/16W
R7335	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
R7336	NRSA63J-473X	MG RESISTOR	47kΩ,1/16W
R7401	NRSA63J-271X	MG RESISTOR	270Ω,1/16W
R7402	NRSA63J-102X	MG RESISTOR	1kΩ,1/16W
R7403	NRVA63D-333X	CMF RESISTOR	33kΩ,1/16W
R7404	NRVA63D-153X	CMF RESISTOR	15kΩ,1/16W
R7405	NRSA63J-100X	MG RESISTOR	10Ω,1/16W
R7406	NRSA63J-100X	MG RESISTOR	10Ω,1/16W
R7407	NRSA63J-100X	MG RESISTOR	10Ω,1/16W
R7416	NRSA63J-472X	MG RESISTOR	4.7kΩ,1/16W
R7417	NRVA63D-562X	CMF RESISTOR	5.6kΩ,1/16W
R7418	NRVA63D-562X	CMF RESISTOR	5.6kΩ,1/16W
R7420	NRSA63J-393X	MG RESISTOR	39kΩ,1/16W
R7421	NVP0016-473X	TRIM RESISTOR	
R7422	NRSA63J-752X	MG RESISTOR	7.5kΩ,1/16W
R7423	NRSA63J-333X	MG RESISTOR	33kΩ,1/16W
R7424	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
R7425	NRSA63J-102X	MG RESISTOR	1kΩ,1/16W
R7426	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
R7501	NRVA63D-103X	CMF RESISTOR	10kΩ,1/16W
R7502	NRVA63D-123X	CMF RESISTOR	12kΩ,1/16W
R7503	NRVA63D-334X	CMF RESISTOR	330kΩ,1/16W
R7504	NRSA63J-394X	MG RESISTOR	390kΩ,1/16W
R7505	NRSA63J-562X	MG RESISTOR	5.6kΩ,1/16W
R7506	NRSA63J-183X	MG RESISTOR	18kΩ,1/16W
R7507	NRSA63J-472X	MG RESISTOR	4.7kΩ,1/16W
R7508	NRS181J-335X	MG RESISTOR	3.3MΩ,1/8W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R7509	NRS181J-335X	MG RESISTOR	3.3MΩ,1/8W
R7510	NRSA63J-223X	MG RESISTOR	22kΩ,1/16W
R7511	NRSA63J-751X	MG RESISTOR	750Ω,1/16W
R7512	NRSA63J-822X	MG RESISTOR	8.2kΩ,1/16W
R7513	NRSA63J-273X	MG RESISTOR	27kΩ,1/16W
R7514	NRSA63J-124X	MG RESISTOR	120kΩ,1/16W
R7515	NRSA63J-151X	MG RESISTOR	150Ω,1/16W
R7516	NRSA63J-151X	MG RESISTOR	150Ω,1/16W
R7517	NRSA63J-122X	MG RESISTOR	1.2kΩ,1/16W
R7518	NRSA63J-332X	MG RESISTOR	3.3kΩ,1/16W
R7519	NRSA63J-163X	MG RESISTOR	16kΩ,1/16W
R7520	NRSA63J-393X	MG RESISTOR	39kΩ,1/16W
R7521	NRVA63D-153X	CMF RESISTOR	15kΩ,1/16W
R7523	NRVA63D-184X	CMF RESISTOR	180kΩ,1/16W
R7524	NRVA63D-114X	CMF RESISTOR	110kΩ,1/16W
R7525	NRSA63J-333X	MG RESISTOR	33kΩ,1/16W
R7526	NRSA63J-221X	MG RESISTOR	220Ω,1/16W
R7530	NRSA63J-272X	MG RESISTOR	2.7kΩ,1/16W
C7301	NCB21CK-105X	CAPACITOR	1μF,16V
C7302	NCB31CK-104X	CAPACITOR	0.1μF,16V
C7303	NBE20JM-226X	T CAPACITOR	22μF,6.3V
C7304	NCB31EK-103X	CAPACITOR	0.01μF,25V
C7305	NCB21CK-105X	CAPACITOR	1μF,16V
C7306	NCB21CK-105X	CAPACITOR	1μF,16V
C7307	NCB21CK-105X	CAPACITOR	1μF,16V
C7308	NBP41CM-106X	T CAPACITOR	10μF,16V
C7309	NCB21CK-105X	CAPACITOR	1μF,16V
C7310	NCB31CK-104X	CAPACITOR	0.1μF,16V
C7311	NBP41DM-106X	T CAPACITOR	10μF,20V
C7312	NCB31CK-104X	CAPACITOR	0.1μF,16V
C7313	NCB31CK-104X	CAPACITOR	0.1μF,16V
C7314	NBE20GM-476X	T CAPACITOR	47μF,4.0V
C7315	NCB31CK-104X	CAPACITOR	0.1μF,16V
C7316	NCB21CK-105X	CAPACITOR	1μF,16V
C7317	NCB31CK-104X	CAPACITOR	0.1μF,16V
C7318	NCB31CK-104X	CAPACITOR	0.1μF,16V
C7319	NCB31CK-104X	CAPACITOR	0.1μF,16V
C7320	NDC31HJ-300X	CAPACITOR	30pF,50V
C7321	NCB31HK-102X	CAPACITOR	0.001μF,50V
C7322	NCB31EK-103X	CAPACITOR	0.01μF,25V
C7323	NCB31HK-682X	CAPACITOR	0.0068μF,50V
C7324	NCB11AK-335X	CAPACITOR	3.3μF,10V
C7330	NCB21CK-105X	CAPACITOR	1μF,16V
C7331	NCB10JK-106X	CAPACITOR	10μF,6.3V
C7332	NCB21CK-105X	CAPACITOR	1μF,16V
C7333	NCB21CK-105X	CAPACITOR	1μF,16V
C7335	NCB31CK-104X	CAPACITOR	0.1μF,16V
C7336	NCB21CK-105X	CAPACITOR	1μF,16V
C7337	NCB21CK-105X	CAPACITOR	1μF,16V
C7338	NCB31EK-103X	CAPACITOR	0.01μF,25V
C7401	NCB21CK-105X	CAPACITOR	1μF,16V
C7402	NCB31CK-104X	CAPACITOR	0.1μF,16V
C7403	NBE20JM-226X	T CAPACITOR	22μF,6.3V
C7404	NCB31EK-103X	CAPACITOR	0.01μF,25V
C7405	NCB21CK-105X	CAPACITOR	1μF,16V
C7406	NCB21CK-105X	CAPACITOR	1μF,16V
C7407	NCB21CK-105X	CAPACITOR	1μF,16V
C7408	NBP41CM-106X	T CAPACITOR	10μF,16V
C7410	NCB31CK-104X	CAPACITOR	0.1μF,16V
C7411	NBP41DM-106X	T CAPACITOR	10μF,20V
C7412	NCB31CK-104X	CAPACITOR	0.1μF,16V
C7413	NCB31CK-104X	CAPACITOR	0.1μF,16V
C7414	NBE20GM-476X	T CAPACITOR	47μF,4.0V

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	C7415	NCB31CK-104X	CAPACITOR	0.1µF,16V
	C7416	NCB21CK-105X	CAPACITOR	1µF,16V
	C7417	NCB31CK-104X	CAPACITOR	0.1µF,16V
	C7418	NCB31CK-104X	CAPACITOR	0.1µF,16V
	C7419	NCB31CK-104X	CAPACITOR	0.1µF,16V
	C7420	NDC31HJ-300X	CAPACITOR	30pF,50V
	C7421	NDC31HJ-221X	CAPACITOR	220pF,50V
	C7422	NCB31EK-103X	CAPACITOR	0.01µF,25V
	C7423	NCB31HK-682X	CAPACITOR	0.0068µF,50V
	C7424	NCB11AK-335X	CAPACITOR	3.3µF,10V
	C7425	NCB31EK-103X	CAPACITOR	0.01µF,25V
	C7501	NCB31CK-104X	CAPACITOR	0.1µF,16V
	C7502	NCB10JK-106X	CAPACITOR	10µF,6.3V
	C7503	NCB11AK-335X	CAPACITOR	3.3µF,10V
	C7504	NBP41CM-106X	T CAPACITOR	10µF,16V
	C7505	NCB31EK-103X	CAPACITOR	0.01µF,25V
	C7506	NBZ0012-685X	T CAPACITOR	6.8µF
	C7507	NDC31HJ-331X	CAPACITOR	330pF,50V
	C7508	NCB31CK-104X	CAPACITOR	0.1µF,16V
	C7509	NBP21CM-685X	T CAPACITOR	6.8µF,16V
	C7512	NCB31CK-104X	CAPACITOR	0.1µF,16V
	L7301	NQL085J-3R3X	COIL	3.3µH
	L7302	NQL315K-100X	COIL	10µH
	L7303	NQL315K-220X	COIL	22µH
	L7304	NQL315K-100X	COIL	10µH
	L7401	NQL085J-100X	COIL	10µH
	L7402	NQL315K-100X	COIL	10µH
	L7501	NQL144K-220X	COIL	22µH
	T7501	NQS0040-001X	SW TRANS	
	T7502	NAX0334-001	PIEZOELE TRANSF	
	CN7501	QGF0304F1-39X	FFC/FPC CONNECTOR	
	CN7502	QGF0517F1-24X	FPC CONNECTOR	
⚠	F7501	NMFZ009-R50X-J1	FUSE	T0.5A,32V

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JACK BOARD ASSEMBLY <07>

PW1	YB10352A1-04	JACK BOARD ASSY	
IC2822	TC7S04FU	IC(DIGITAL)	
	or MC74HC1G04DF	IC	
Q2821	2SC4617/QR/-X	TRANSISTOR	
	or 2SD2216J/QR/-X	TRANSISTOR	
D2821	UMZ6.8EN	ZENER DIODE	
D2823	EMZ6.8N	ZENER DIODE	
D2825	RB715F	SB DIODE	
R2801	NRSA63J-220X	MG RESISTOR	22Ω,1/16W
R2802	NRSA63J-220X	MG RESISTOR	22Ω,1/16W
R2803	NRSA63J-220X	MG RESISTOR	22Ω,1/16W
R2804	NRSA63J-220X	MG RESISTOR	22Ω,1/16W
R2805	NRSA63J-473X	MG RESISTOR	47kΩ,1/16W
R2806	NRSA63J-473X	MG RESISTOR	47kΩ,1/16W
R2807	NRSA63J-473X	MG RESISTOR	47kΩ,1/16W
R2808	NRSA63J-473X	MG RESISTOR	47kΩ,1/16W
R2809	NRSA63J-473X	MG RESISTOR	47kΩ,1/16W
R2810	NRSA63J-473X	MG RESISTOR	47kΩ,1/16W
R2811	NRSA63J-473X	MG RESISTOR	47kΩ,1/16W
R2821	NRSA63J-101X	MG RESISTOR	100Ω,1/16W
R2822	NRSA63J-470X	MG RESISTOR	47Ω,1/16W
R2823	NRSA63J-101X	MG RESISTOR	100Ω,1/16W
R2824	NRSA63J-101X	MG RESISTOR	100Ω,1/16W

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	R2825	NRSA63J-101X	MG RESISTOR	100Ω,1/16W
	R2826	NRSA63J-101X	MG RESISTOR	100Ω,1/16W
	R2828	NRSA63J-472X	MG RESISTOR	4.7kΩ,1/16W
	R2829	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
	R2831	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
	R2832	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
	R2833	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
	R2842	NQR0022-005X	FERRITE BEAD	
	R2861	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
	R2862	NRSA63J-391X	MG RESISTOR	390Ω,1/16W
	R2883	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
	C2801	NBE80JM-106X	T CAPACITOR	10µF,6.3V
	C2821	NCB31EK-103X	CAPACITOR	0.01µF,25V
	C2841	NCB31CK-683X	CAPACITOR	0.068µF,16V
	C2842	NCB31CK-683X	CAPACITOR	0.068µF,16V
	C2848	NCB31HK-472X	CAPACITOR	0.0047µF,50V
	C2849	NCB31HK-472X	CAPACITOR	0.0047µF,50V
	C2881	NCB31EK-103X	CAPACITOR	0.01µF,25V
	C2882	NCB31EK-103X	CAPACITOR	0.01µF,25V
	C2883	NCB31EK-103X	CAPACITOR	0.01µF,25V
	L2801	NQR0006-001X	FERRITE BEAD	
	L2821	NQR0006-001X	FERRITE BEAD	
	L2841	NQR0251-004X	FERRITE BEAD	
	L2842	NQR0251-004X	FERRITE BEAD	
	L2843	NQR0251-004X	FERRITE BEAD	
	L2844	NQR0251-004X	FERRITE BEAD	
	L2845	NQR0251-004X	FERRITE BEAD	
	J301	NNZ0056-001X	D CONNECTOR	
	J302	QNS0012-001	3.5 JACK	
	J303	QNS0078-001	3.5 JACK	
	CN301	QGF0301F1-45X	FPC CONNECTOR	
	CN302	NNZ0062-001X	SD CARD CONNECTOR	
	CN303	QGF0501F1-11X	FPC CONNECTOR	
	CN304	QGA1201F2-02X	CONNECTOR	

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EJECT BOARD ASSEMBLY <08>

PW3	YB10352A3	EJECT BOARD ASSY	
R2421	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
S2421	NSW0094-001X	DETECT SWITCH,OPEN/EJECT	
CN2421	QGF0512C1-06X	FPC CONNECTOR	
CN2422	QGF0505F2-06X	FPC CONNECTOR	

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DECK OPE. BOARD ASSEMBLY <09>

PW4	YB10352A4-01	DECK OPE. BOARD ASSY	
R2432	NRSA63J-152X	MG RESISTOR	1.5kΩ,1/16W
R2433	NRSA63J-182X	MG RESISTOR	1.8kΩ,1/16W
R2434	NRSA63J-272X	MG RESISTOR	2.7kΩ,1/16W
R2437	NRSA63J-152X	MG RESISTOR	1.5kΩ,1/16W
R2438	NRSA63J-182X	MG RESISTOR	1.8kΩ,1/16W
R2439	NRSA63J-272X	MG RESISTOR	2.7kΩ,1/16W
R2440	NRSA63J-392X	MG RESISTOR	3.9kΩ,1/16W
C2431	NCB31EK-103X	CAPACITOR	0.01µF,25V
S2431	NSW0145-001X	TACT SWITCH,STOP/PROGRAM AE	

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
S2432	NSW0145-001X	TACT SWITCH,REW/NIGHT	
S2433	NSW0145-001X	TACT SWITCH,PLAY/PAUSE/BACK LIGHT	
S2434	NSW0145-001X	TACT SWITCH,FF/FADE/WIPE	
S2435	NSW0145-001X	TACT SWITCH,TITLE	
S2436	NSW0145-001X	TACT SWITCH,D.SOUND	
S2437	NSW0145-001X	TACT SWITCH,INDEX	
S2438	NSW0145-001X	TACT SWITCH,NAVI/SELECT	
S2439	NSW0145-001X	TACT SWITCH,E-MAIL/INFO	
S2440	NSW0099-001X	SLIDE SWITCH,VIDEO/MEMORY	
S2441	NSW0167-001X	PUSH SWITCH,MONITOR OPEN	
CN2431	QGF0505F1-08X	FPC CONNECTOR	

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CCD BOARD ASSEMBLY <10>

PW	YB10349A-01	CCD BOARD ASSY	
Q5201	2SC3931/CD/-X	TRANSISTOR	
Q5202	2SC3931/CD/-X	TRANSISTOR	
Q5203	2SC4081/RS/-X	TRANSISTOR	
R5201	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
R5202	NRSA63J-123X	MG RESISTOR	12kΩ,1/16W
R5203	NRSA63J-122X	MG RESISTOR	1.2kΩ,1/16W
R5204	NRSA63J-472X	MG RESISTOR	4.7kΩ,1/16W
R5207	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
C5201	NCB31CK-104X	CAPACITOR	0.1µF,16V
C5202	NBE41AM-106X	T CAPACITOR	10µF,10V
C5203	NCB31HK-222X	CAPACITOR	0.0022µF,50V
C5204	NCB21EK-104X	CAPACITOR	0.1µF,25V
C5205	NCB31CK-104X	CAPACITOR	0.1µF,16V
C5207	NCF31EZ-104X	CAPACITOR	0.1µF,25V
C5209	NBP41DM-106X	T CAPACITOR	10µF,20V
WR1	WJR0018-001A	E-SH C WIRE C-F,MAIN CN101	

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FE SW BOARD ASSEMBLY <11>

PW5	YB10352A5	FE SW BOARD ASSY	
S1181	NSW0173-001X	PUSH SWITCH,FOCUS	
S1182	NSW0173-001X	PUSH SWITCH,EXPOSURE	
CN1181	QGA1001F1-03X	CONNECTOR	

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FRONT BOARD ASSEMBLY <12>

PW6	YB10352A6	FRONT BOARD ASSY	
R2411	NRSA63J-470X	MG RESISTOR	47Ω,1/16W
C2411	NCB31CK-104X	CAPACITOR	0.1µF,16V
C2412	NCB31EK-103X	CAPACITOR	0.01µF,25V
CN2411	QGF0505F2-06X	FPC CONNECTOR	
CN2412	QGA1001F1-03X	CONNECTOR	
CN2413	QGF0512C1-06X	FPC CONNECTOR	

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	

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VF BL BOARD ASSEMBLY <13>

PW	YB10355A	VF BL BOARD ASSY	
Q7001	UMD3N	DIGI TRANSISTOR	
	or XP4311	TRANSISTOR	
Q7002	PUMX1	PAIR TRANSISTOR	
D7001	NSCW100A0/ST/-X	LE DIODE	
R7001	NRSA63J-332X	MG RESISTOR	3.3kΩ,1/16W
R7002	NRSA63J-561X	MG RESISTOR	560Ω,1/16W
R7003	NRSA63J-470X	MG RESISTOR	47Ω,1/16W
R7005	NRSA63J-333X	MG RESISTOR	33kΩ,1/16W
C7001	NCB31CK-104X	CAPACITOR	0.1µF,16V
C7002	NCB31CK-104X	CAPACITOR	0.1µF,16V
C7003	NCB31CK-104X	CAPACITOR	0.1µF,16V
CN7001	QGF0517F2-20X	FPC CONNECTOR	
CN7002	QGF0502F1-16X	FPC CONNECTOR	

SECTION 4
CHARTS AND DIAGRAMS

NOTES OF SCHEMATIC DIAGRAM

Safety precautions
The Components identified by the symbol ⚠ are critical for safety. For continued safety, replace safety critical components only with manufacturer's recommended parts.

1. Units of components on the schematic diagram

Unless otherwise specified.

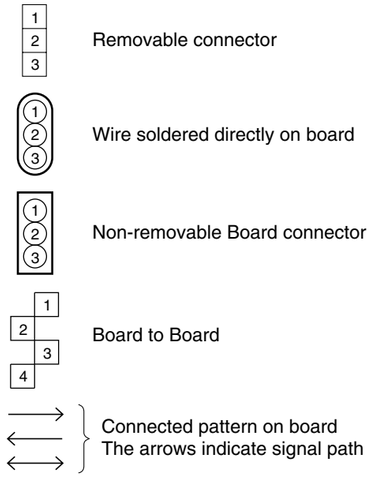
1) All resistance values are in ohm. 1/6 W, 1/8 W (refer to parts list).
   Chip resistors are 1/16 W.
   K: KΩ (1000Ω), M: MΩ (1000KΩ)
2) All capacitance values are in μF, (P: PF).
3) All inductance values are in μH, (m: mH).
4) All diodes are 1SS133, MA165 or 1N4148M (refer to parts list).

2. Indications of control voltage

AUX : Active at high.

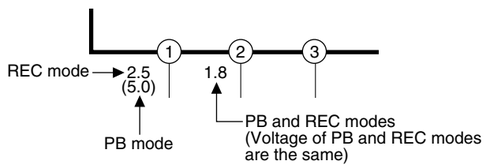
$\overline{AUX}$ or AUX(L) : Active at low.

3. Interpreting Connector indications



4. Voltage measurement

1) Regulator (DC/DC CONV) circuits
   REC : Colour bar signal.
   PB : Alignment tape (Colour bar).
   — : Unmeasurable or unnecessary to measure.
4) Indication on schematic diagram
   Voltage Indications for REC and PB mode on the schematic diagram are as shown below.



Note: If the voltages are not indicated on the schematic diagram, refer to the voltage charts.

5. Signal path Symbols

The arrows indicate the signal path as follows.

NOTE : The arrow is DVC unique object.

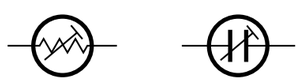
- Playback signal path
- Playback and recording signal path
- Recording signal path (including E-E signal path)
- Capstan servo path
- Drum servo path

(Example)

- R-Y — Playback R-Y signal path
- Y — Recording Y signal path

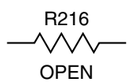
6. Indication of the parts for adjustments

The parts for the adjustments are surrounded with the circle as shown below.



7. Indication of the parts not mounted on the circuit board

"OPEN" is indicated by the parts not mounted on the circuit board.



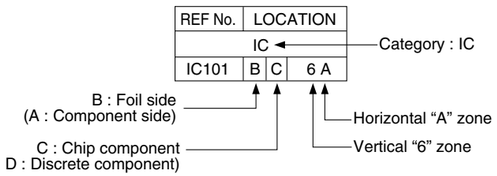
CIRCUIT BOARD NOTES

1. Foil and Component sides

1) Foil side (B side) :
   Parts on the foil side seen from foil face (pattern face) are indicated.
2) Component side (A side) :
   Parts on the component side seen from component face (parts face) indicated.

2. Parts location guides

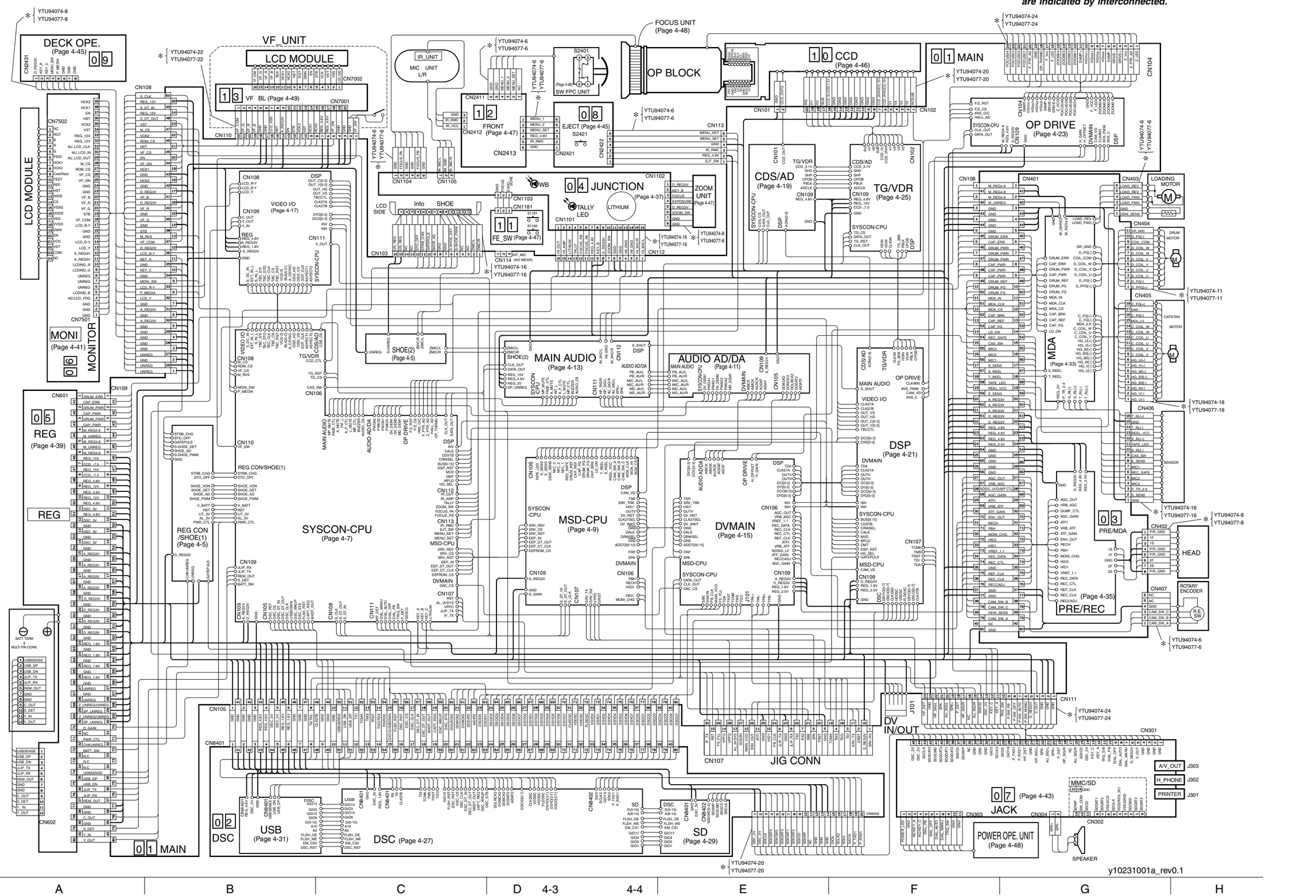
Parts location are indicated by guide scale on the circuit board.



Note: For general information in service manual, please refer to the Service Manual of GENERAL INFORMATION Edition 4 No. 82054D (January 1994).

4.1 BOARD INTERCONNECTIONS

NOTE)✻ : The number of patch cords are indicated by interconnected.

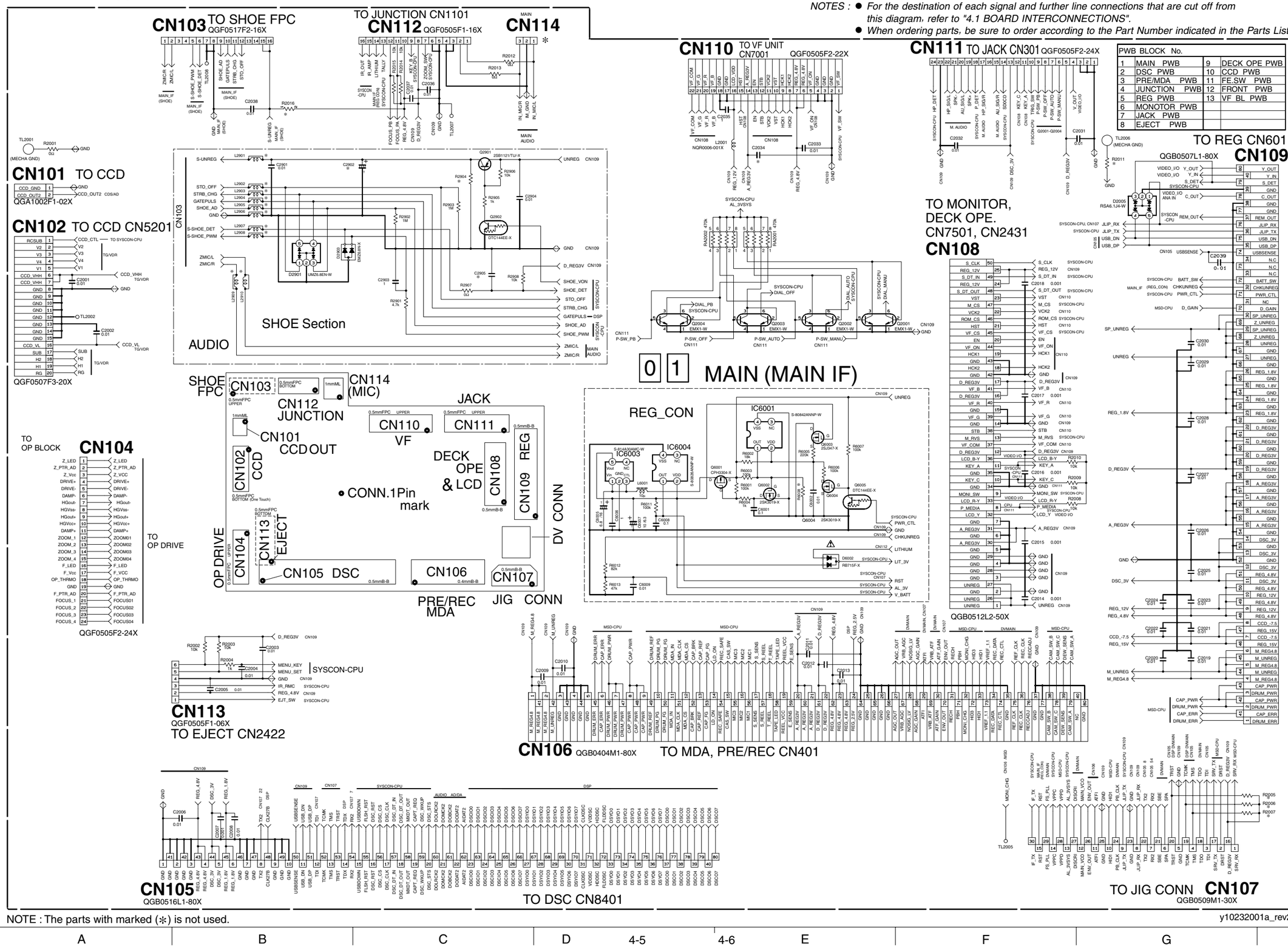


A B C D 4-3 4-4 E F G H

4.2 MAIN IF SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*

PWB BLOCK No.			
1	MAIN PWB	9	DECK OPE PWB
2	DSC PWB	10	CCD PWB
3	PRE/MDA PWB	11	FE.SW PWB
4	JUNCTION PWB	12	FRONT PWB
5	REG PWB	13	VF BL PWB
6	MONOTOR PWB		
7	JACK PWB		
8	EJECT PWB		

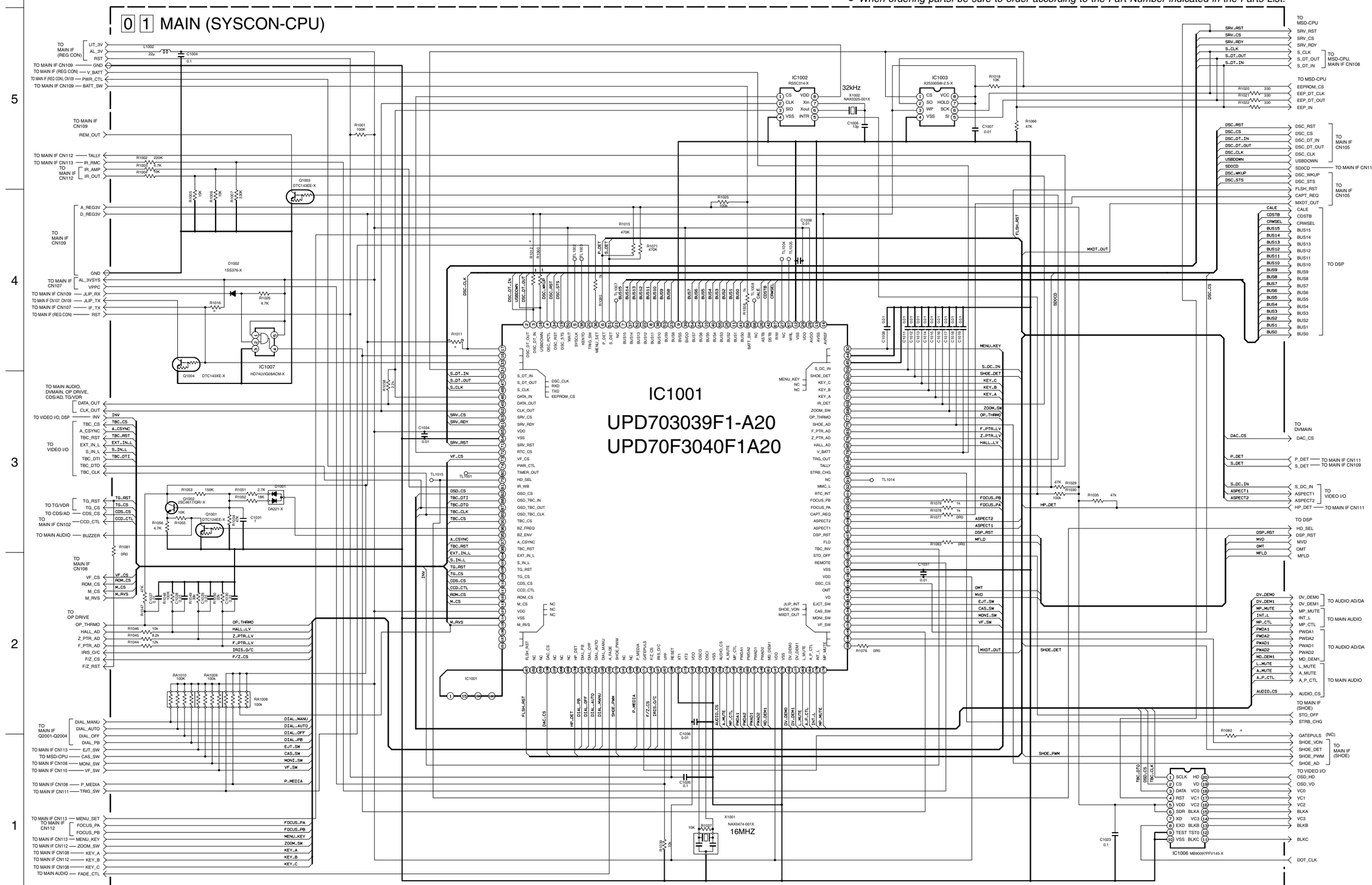


NOTE : The parts with marked (*) is not used.

y10232001a_rev2

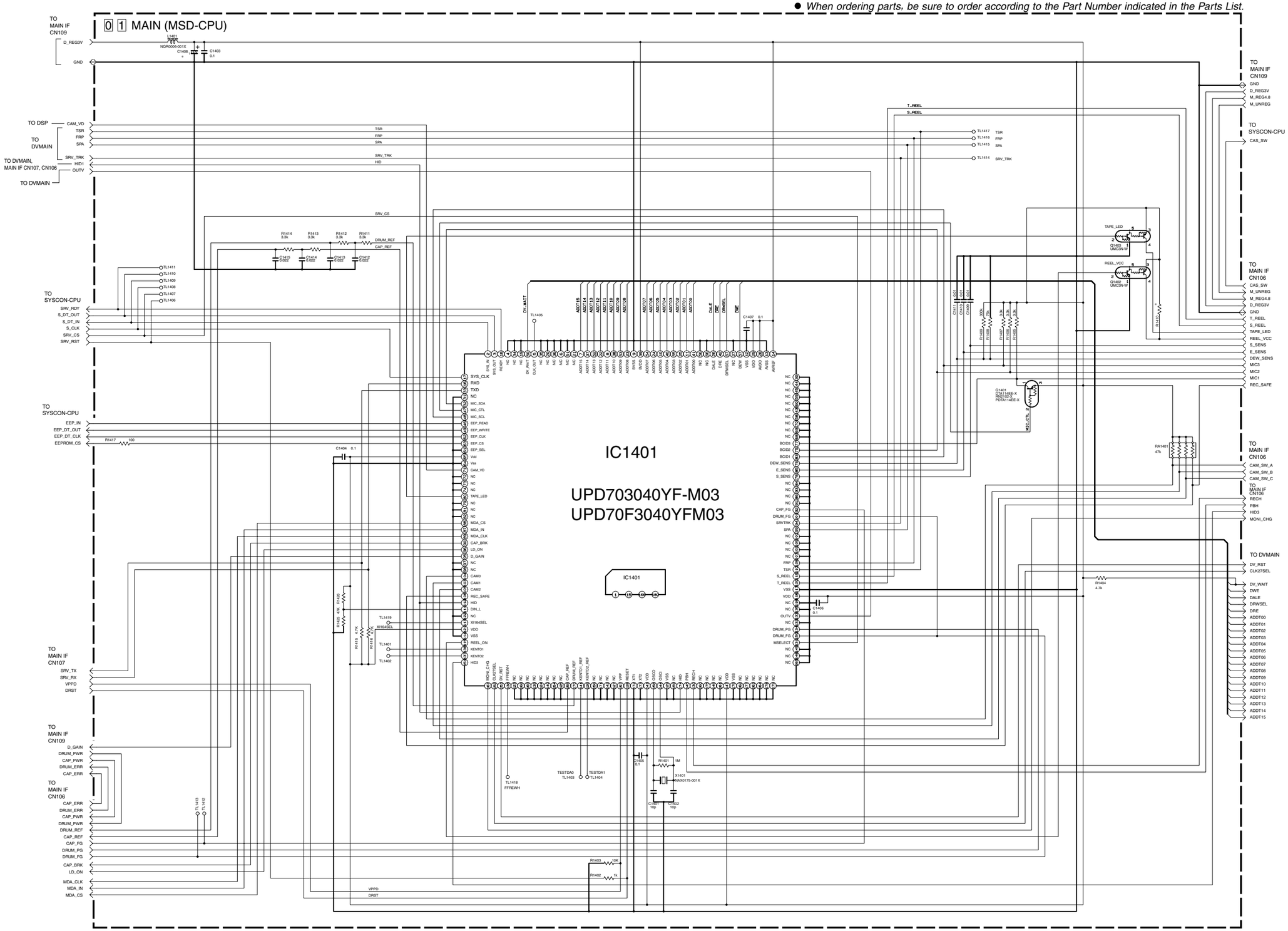
4.3 SYSCON-CPU SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



4.4 MSD-CPU SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*

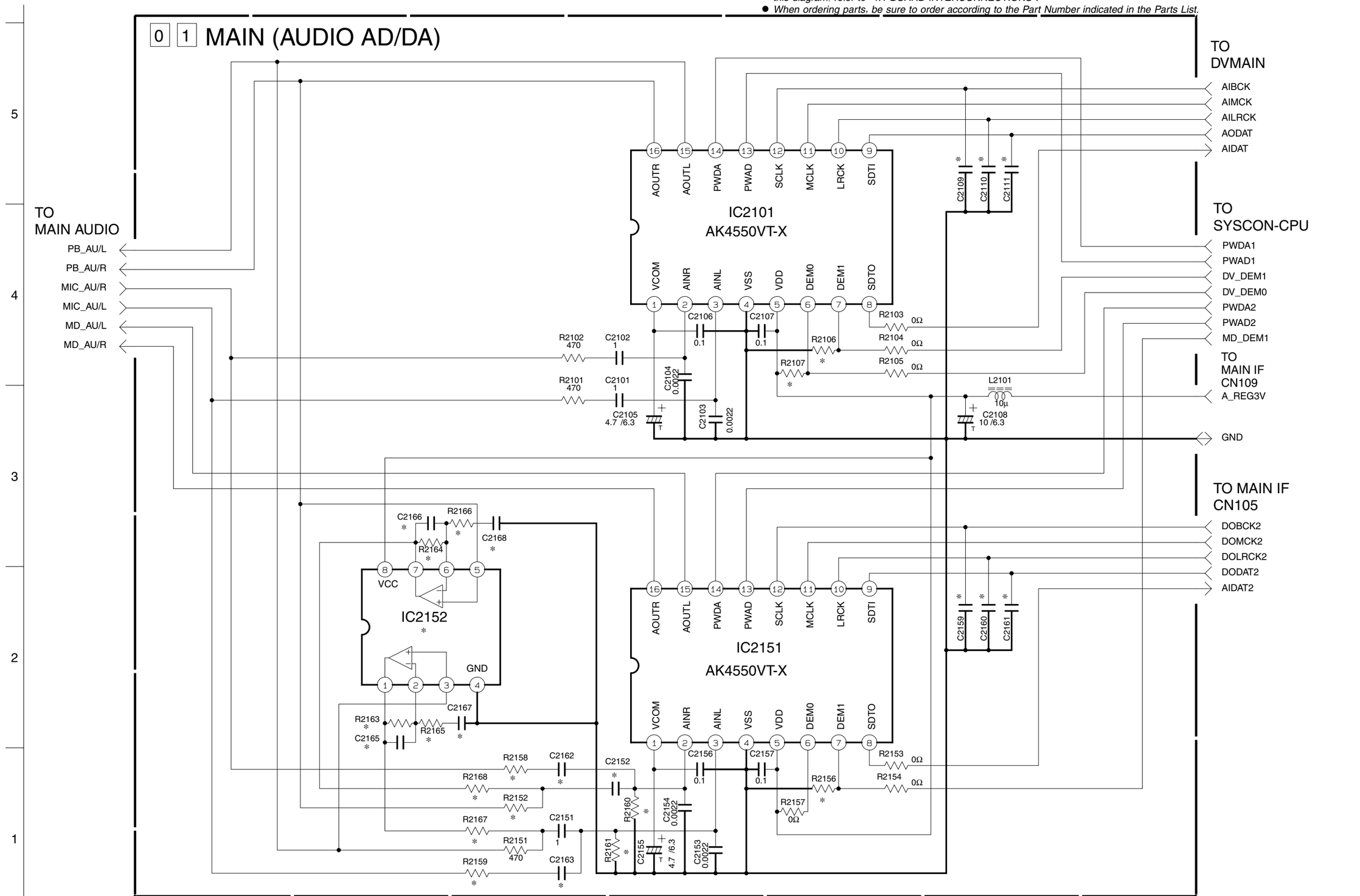


NOTE : The parts with marked (*) is not used.

y10234001a_rev0

4.5 AUDIO AD/DA SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



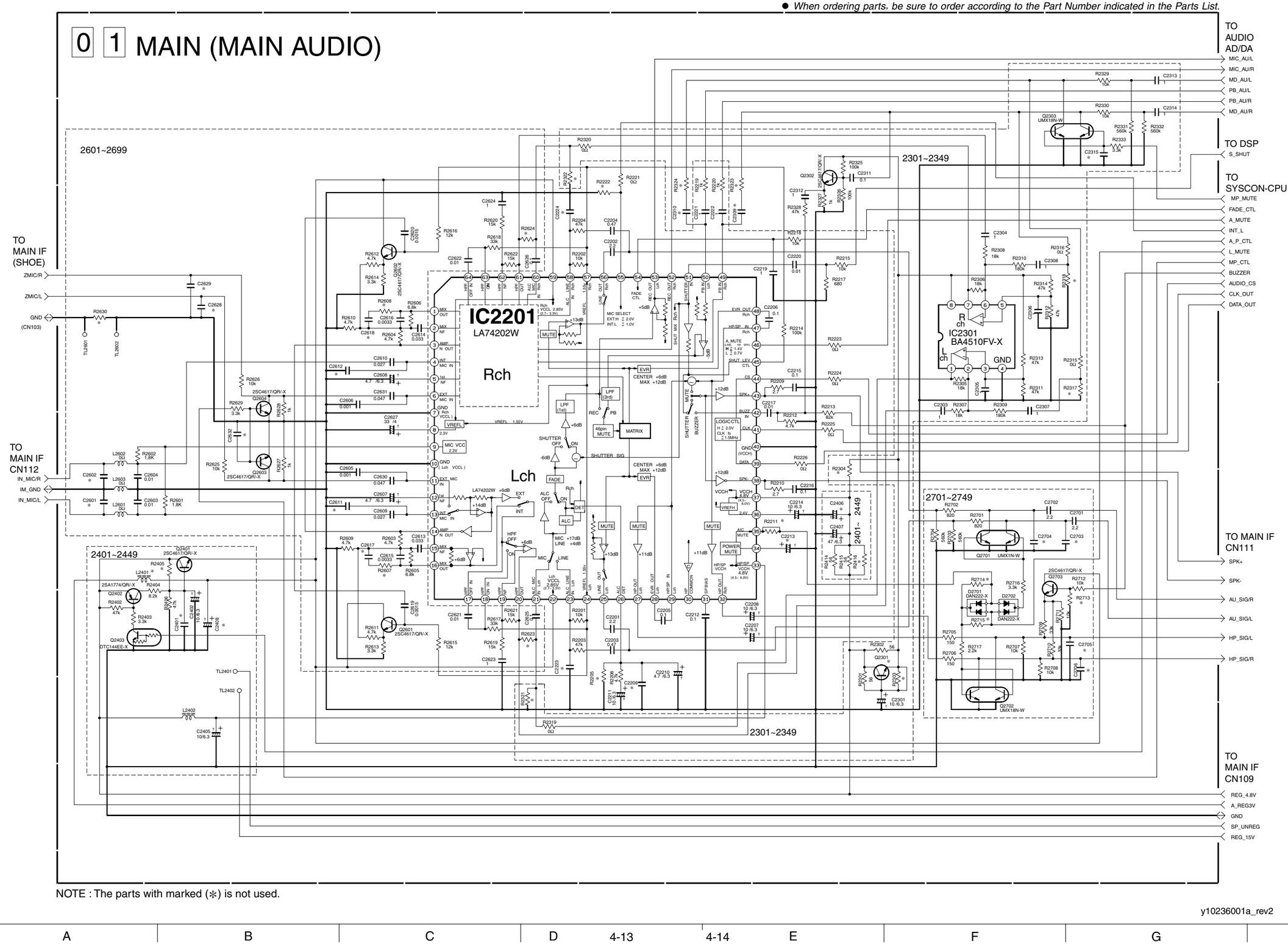
NOTE : The parts with marked (✻) is not used.

y30157001a_rev0.1

4.6 MAIN AUDIO SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*

0 1 MAIN (MAIN AUDIO)

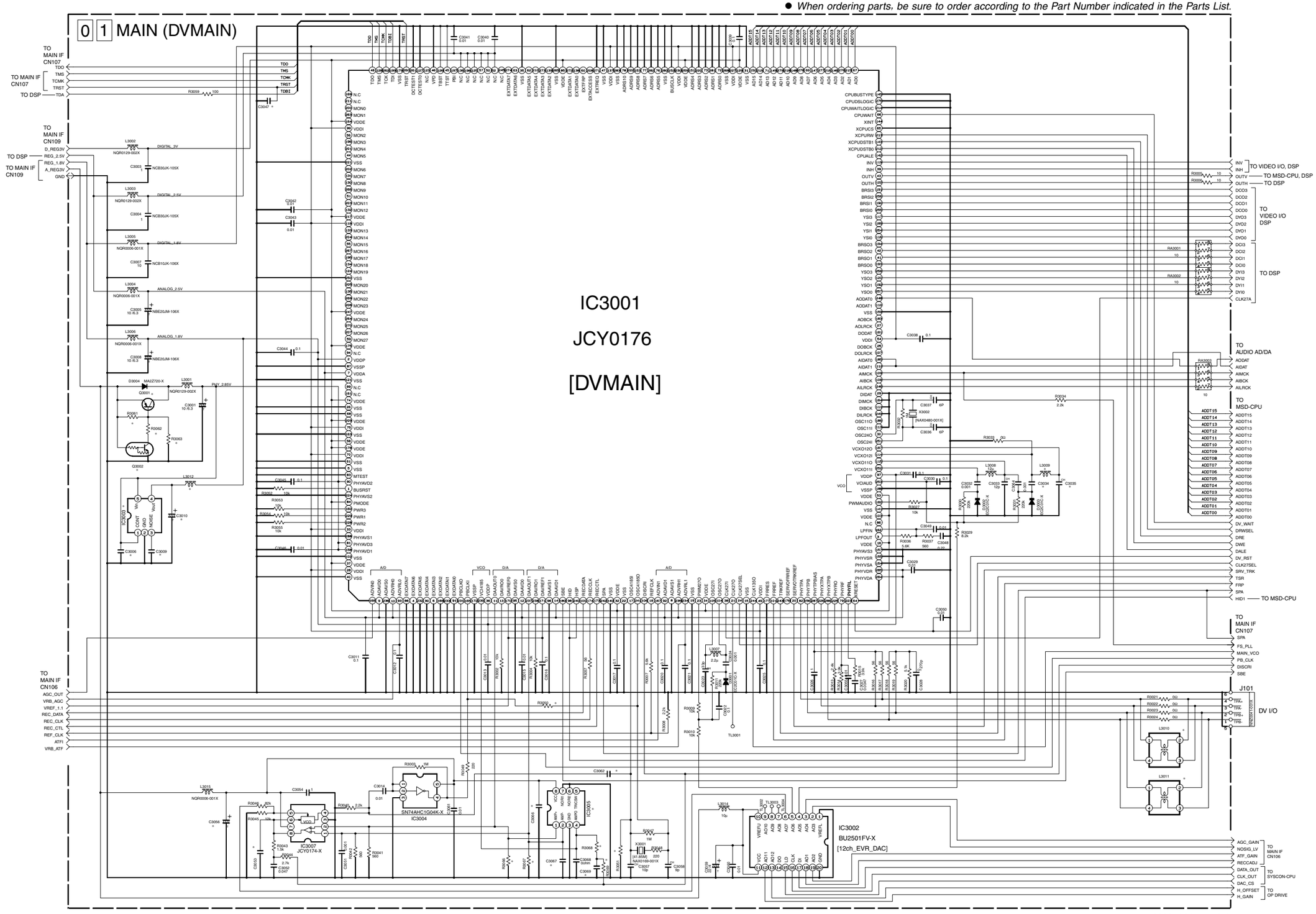


NOTE : The parts with marked (*) is not used.

y10236001a_rev2

4.7 DVMAIN SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*

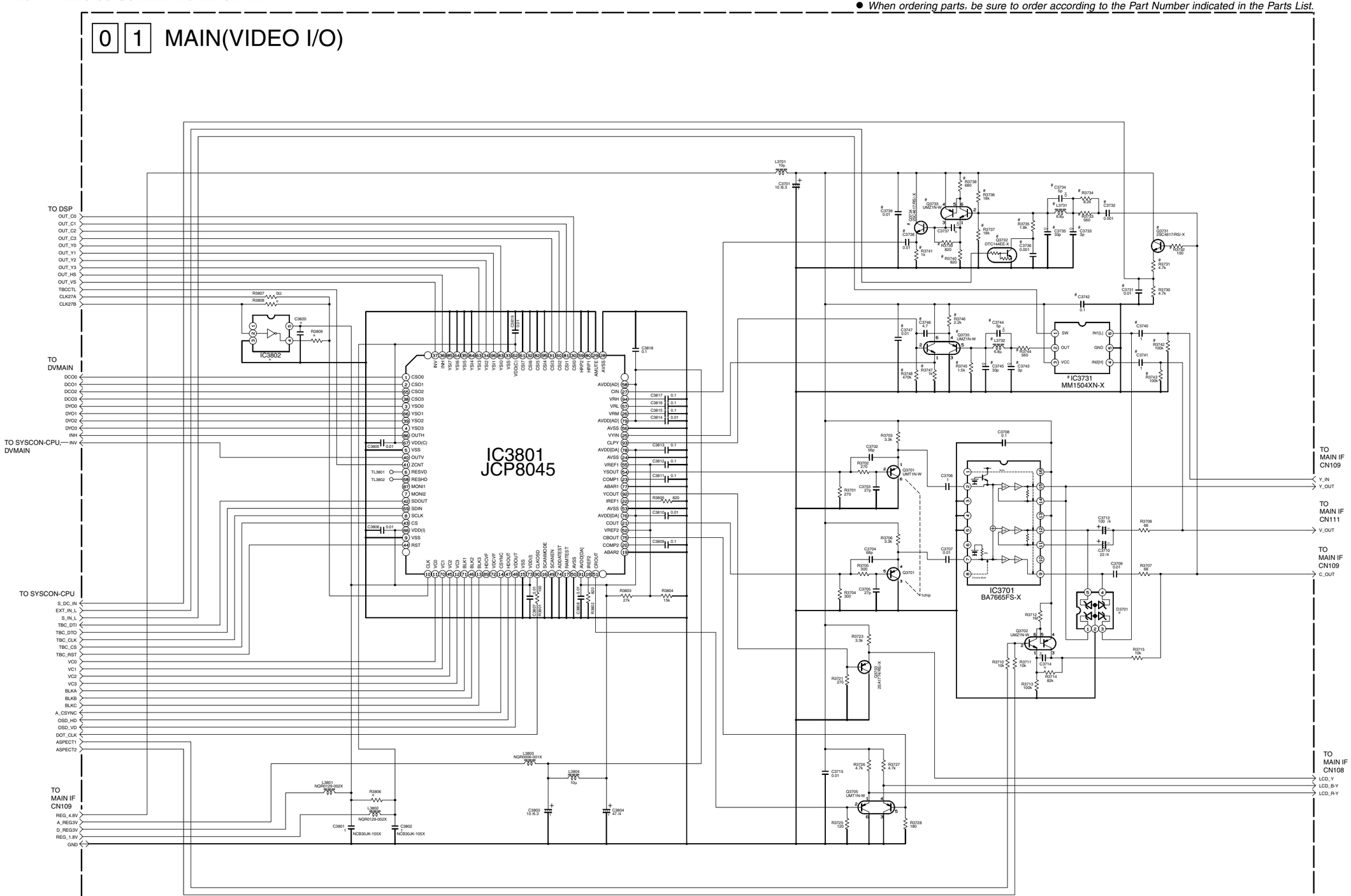


NOTE : The parts with marked (*) is not used.

y10235001a_rev0.1

4.8 VIDEO I/O SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



NOTE : The parts with marked (⁎) is not used.

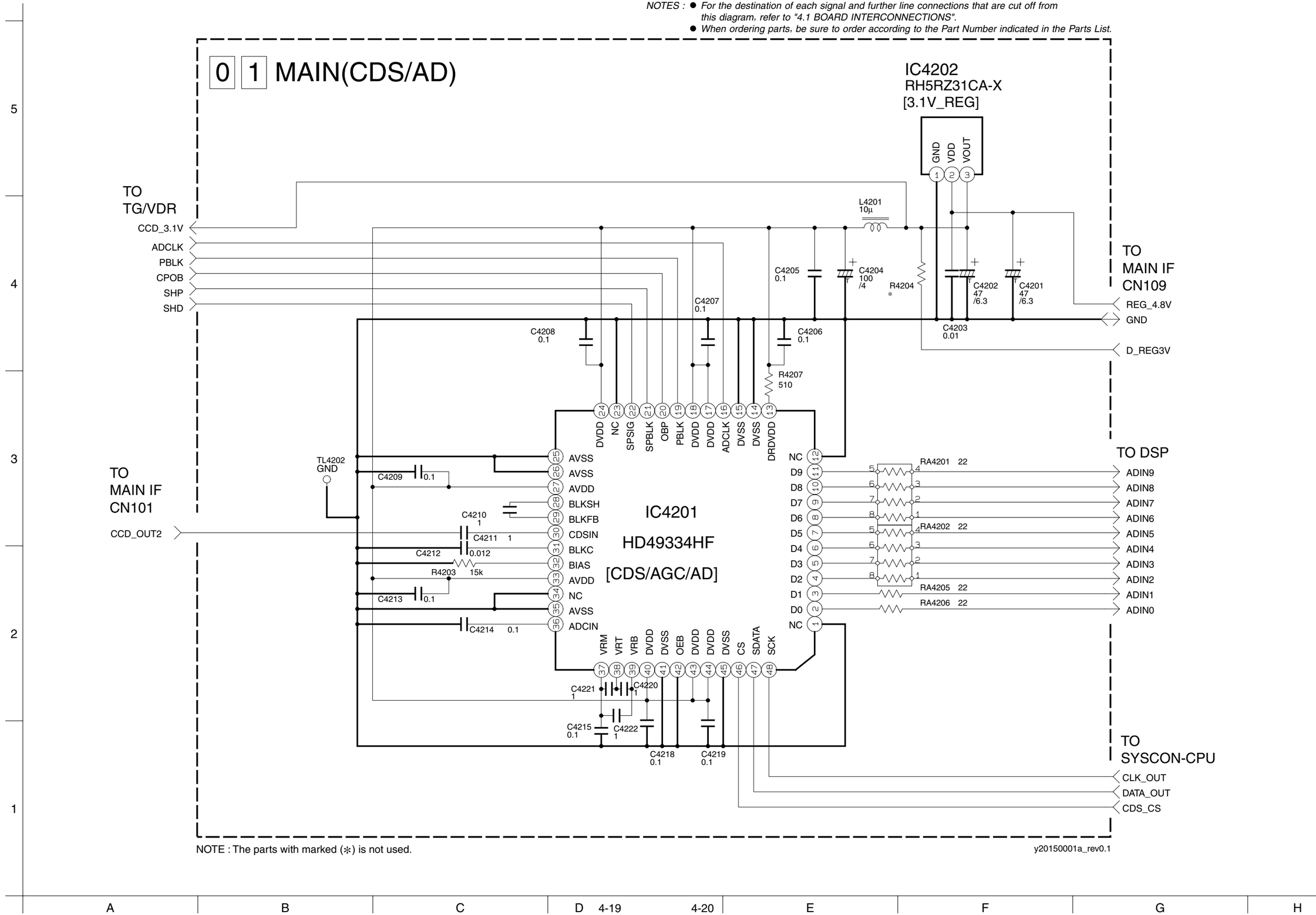
y10239001a_rev0

: EXCHANGE PARTS LIST

	WITH ANALOG INPUT	WITHOUT ANALOG INPUT
IC3731	USED	NOT USED
Q3731-Q3735	USED	NOT USED
L3731,L3732	USED	NOT USED
R3731-R3748	USED	NOT USED
C3731-C3747	USED	NOT USED

4.9 CDS/AD SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*

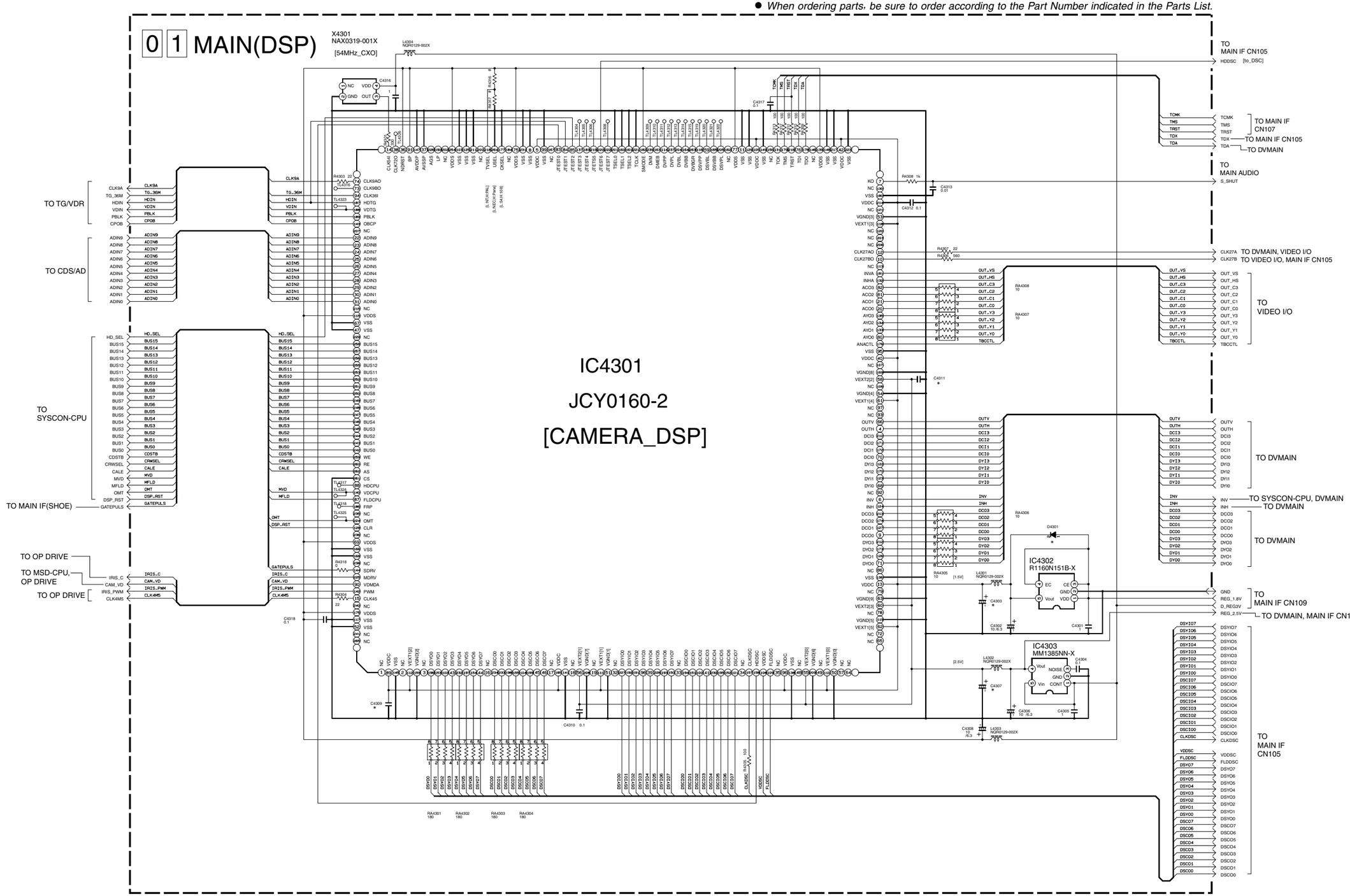


NOTE : The parts with marked (✻) is not used.

y20150001a_rev0.1

4.10 DSP SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*

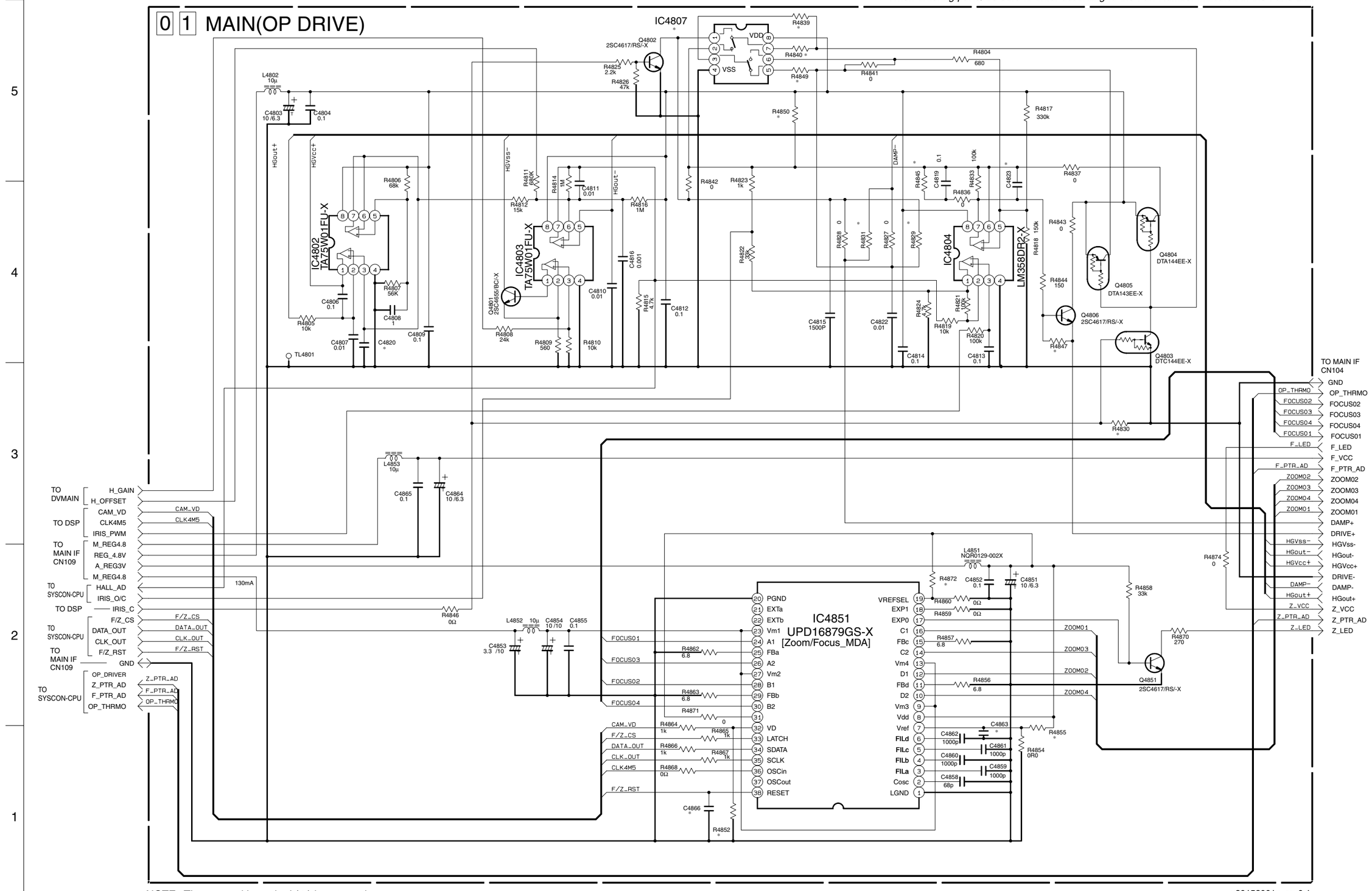


: EXCHANGE PARTS LIST

#	R4316	R4317
NTSC	*	0
PAL	0	*

4.11 OP DRIVE SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*

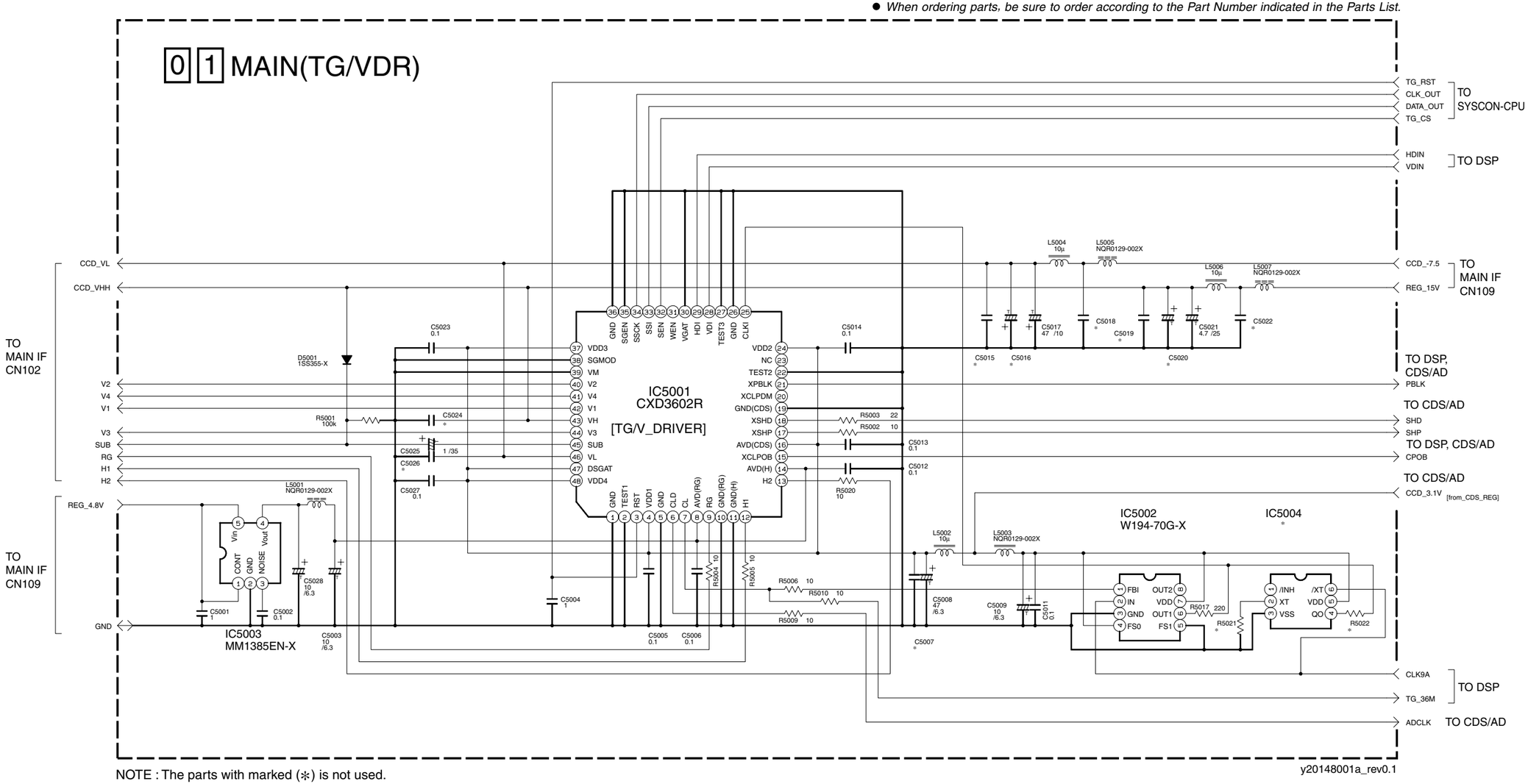


NOTE : The parts with marked (*) is not used.

y20152001a_rev0.1

4.12 TG/VDR SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*

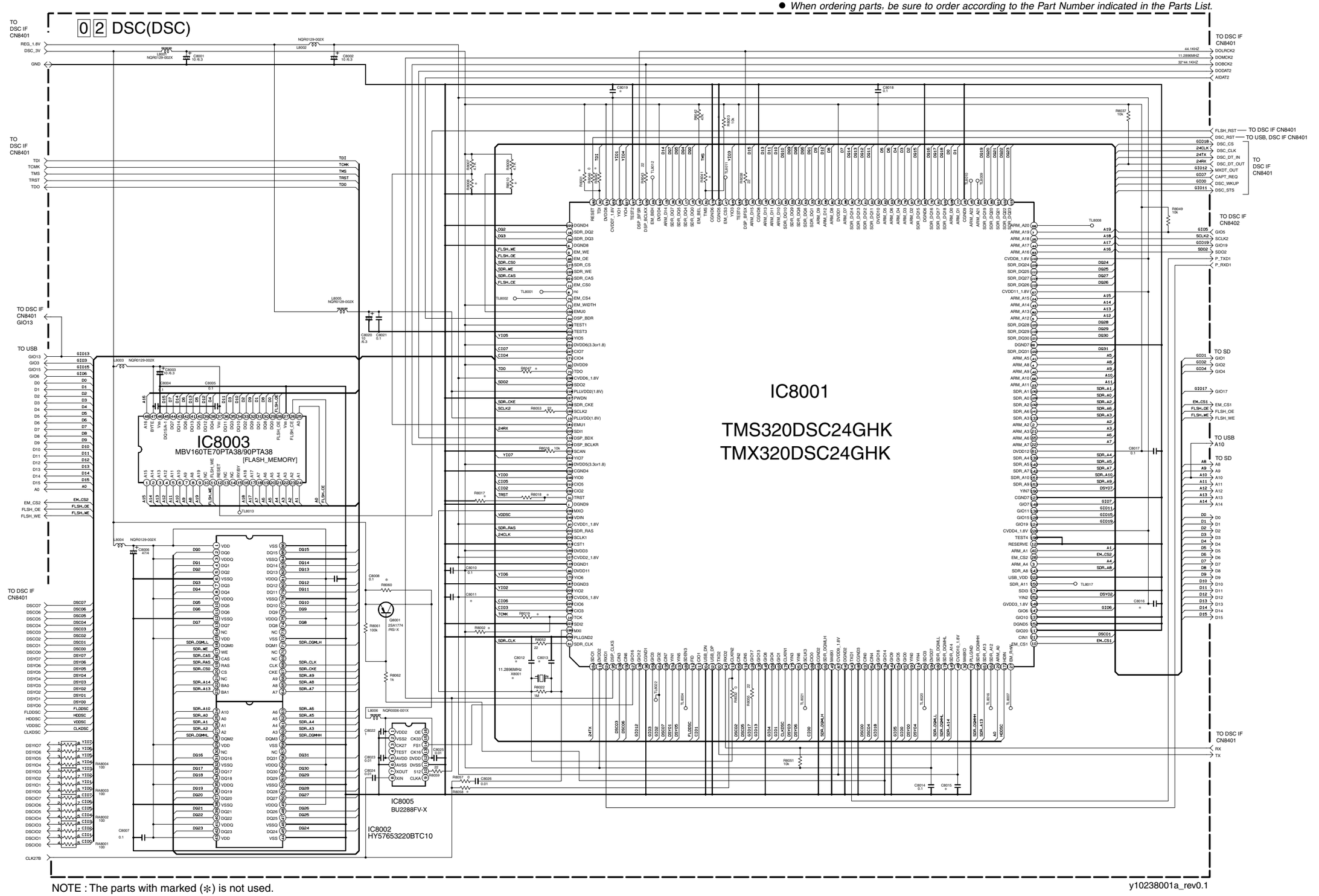


NOTE : The parts with marked (*) is not used.

y20148001a_rev0.1

4.13 DSC SCHEMATIC DIAGRAM

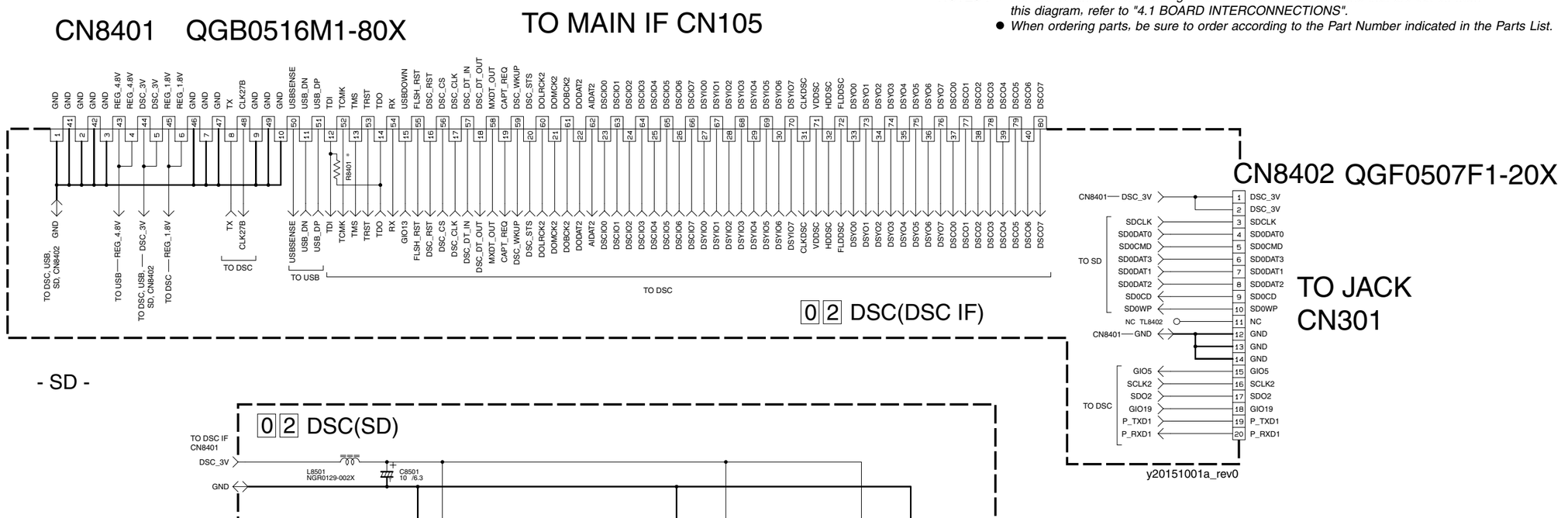
NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



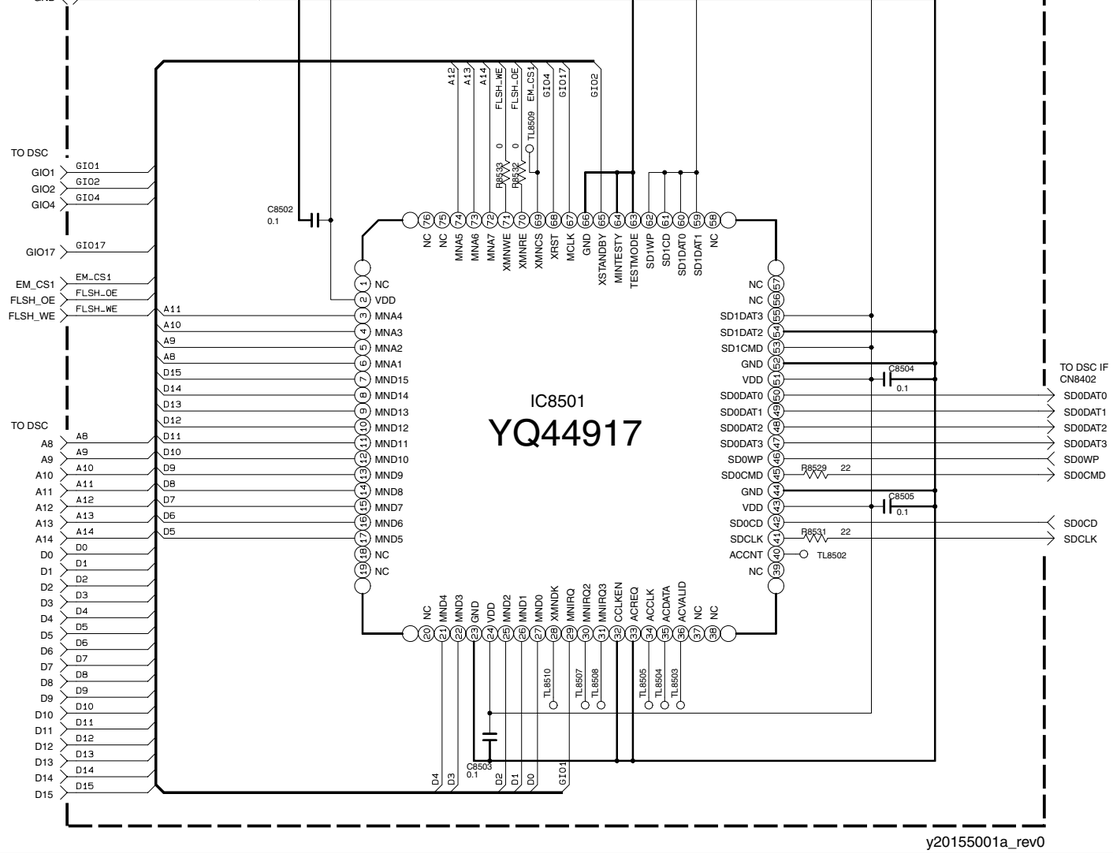
4.14 DSC IF AND SD SCHEMATIC DIAGRAMS

- DSC IF -

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*


CN8401 QGB0516M1-80X
TO MAIN IF CN105
GND GND GND GND GND REG_4.8V REG_4.8V DSC_3V DSC_3V REG_1.8V REG_1.8V GND GND GND TX CLK27B GND GND GND USBSENSE USB_DN USB_DP TDI TCMK TMS TRST TDO RX USBDOWN FLSH_RST DSC_RST DSC_CS DSC_CLK DSC_DT_IN DSC_DT_OUT MXDT_OUT CAPT_REQ DSC_WKUP DSC_STS DOLRCK2 DOMCK2 DOBCK2 DODAT2 AIDAT2 DSCIO0 DSCIO1 DSCIO2 DSCIO3 DSCIO4 DSCIO5 DSCIO6 DSCIO7 DSYIO0 DSYIO1 DSYIO2 DSYIO3 DSYIO4 DSYIO5 DSYIO6 DSYIO7 CLKDSC VDDSC HDDSC FLDDSC DSYO0 DSYO1 DSYO2 DSYO3 DSYO4 DSYO5 DSYO6 DSYO7 DSCO0 DSCO1 DSCO2 DSCO3 DSCO4 DSCO5 DSCO6 DSCO7
R8401 *
TO DSC, USB, SD, CN8402
TO USB — REG_4.8V
TO DSC, USB, — DSC_3V SD, CN8402
TO DSC — REG_1.8V
TX CLK27B
TO DSC
USBSENSE USB_DN USB_DP
TO USB
TDI TCMK TMS TRST TDO RX GIO13 FLSH_RST DSC_RST DSC_CS DSC_CLK DSC_DT_IN DSC_DT_OUT MXDT_OUT CAPT_REQ DSC_WKUP DSC_STS DOLRCK2 DOMCK2 DOBCK2 DODAT2 AIDAT2 DSCIO0 DSCIO1 DSCIO2 DSCIO3 DSCIO4 DSCIO5 DSCIO6 DSCIO7 DSYIO0 DSYIO1 DSYIO2 DSYIO3 DSYIO4 DSYIO5 DSYIO6 DSYIO7 CLKDSC VDDSC HDDSC FLDDSC DSYO0 DSYO1 DSYO2 DSYO3 DSYO4 DSYO5 DSYO6 DSYO7 DSCO0 DSCO1 DSCO2 DSCO3 DSCO4 DSCO5 DSCO6 DSCO7
TO DSC
02 DSC(DSC IF)
CN8402 QGF0507F1-20X
CN8401 — DSC_3V
TO SD
SDCLK SD0DAT0 SD0CMD SD0DAT3 SD0DAT1 SD0DAT2 SD0CD SD0WP
NC TL8402
CN8401 — GND
TO DSC
GIO5 SCLK2 SDO2 GIO19 P_TXD1 P_RXD1
TO JACK CN301
y20151001a_rev0

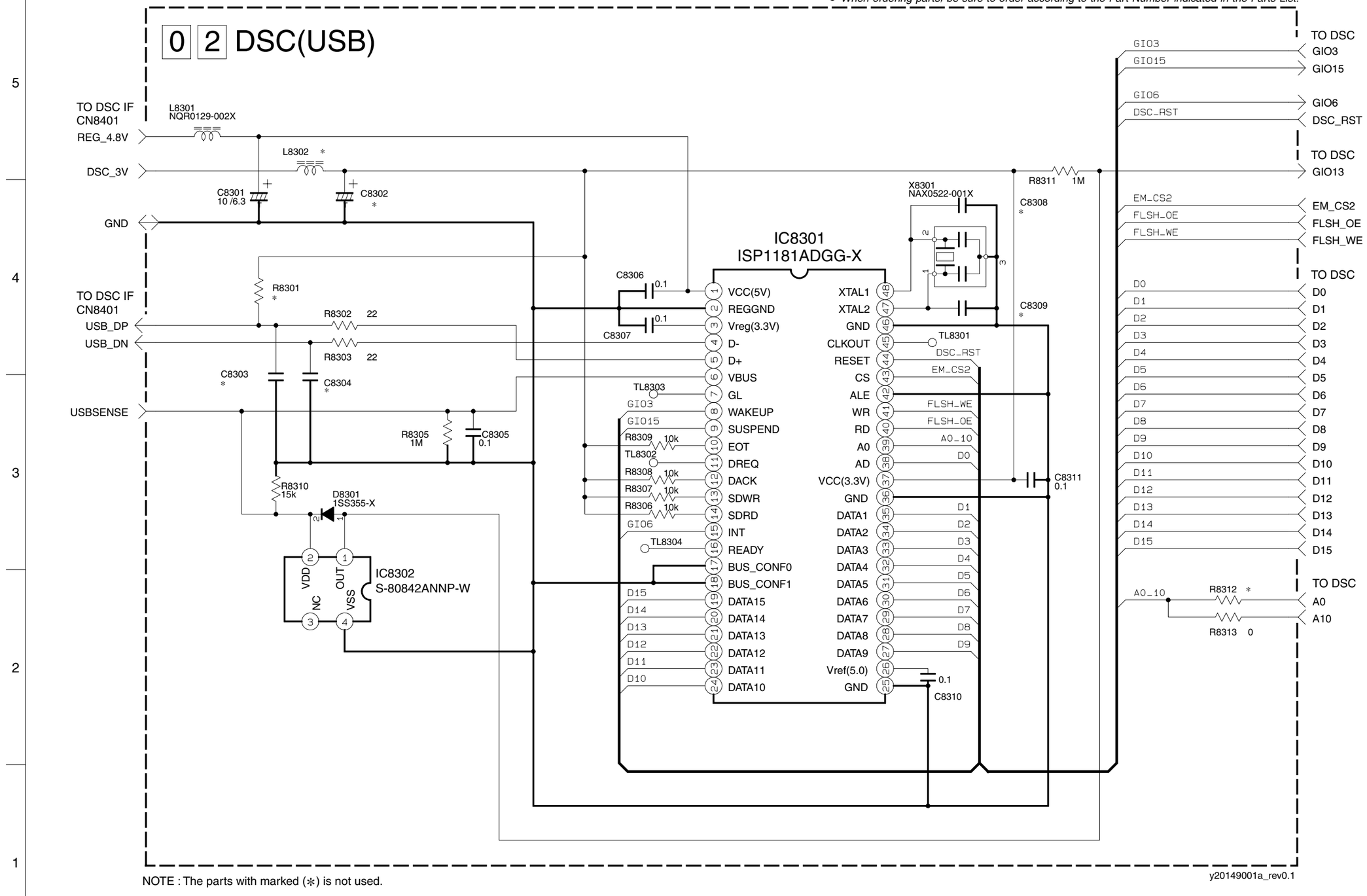
- SD -


02 DSC(SD)
TO DSC IF CN8401
DSC_3V
GND
L8501 NGR0129-002X
C8501 10 /6.3
TO DSC
GIO1 GIO2 GIO4 GIO17 EM_CS1 FLSH_OE FLSH_WE
A11 A10 A9 A8 D15 D14 D13 D12 D11 D10 D9 D8 D7 D6 D5
A8 A9 A10 A11 A12 A13 A14 D0 D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12 D13 D14 D15
A12 A13 A14 FLSH_WE FLSH_OE EM_CS1 GIO4 GIO17 GIO2
R8530 0
R8532 0
TL8509
C8502 0.1
NC NC MNA5 MNA6 MNA7 XMNWE XMNRE XMNCS XRST MCLK GND XSTANDBY MINTESTY TESTMODE SD1WP SD1CD SD1DAT0 SD1DAT1 NC
NC VDD MNA4 MNA3 MNA2 MNA1 MND15 MND14 MND13 MND12 MND11 MND10 MND9 MND8 MND7 MND6 MND5 NC NC
IC8501
YQ44917
NC MND4 MND3 GND VDD MND2 MND1 MND0 XMNDK MNIRQ MNIRQ2 MNIRQ3 CCLKEN ACREQ ACCLK ACDATA ACVALID NC NC
TL8510 TL8507 TL8508 TL8505 TL8504 TL8503
C8503 0.1
D4 D3 D2 D1 D0 GIO1
NC NC SD1DAT3 SD1DAT2 SD1CMD GND VDD SD0DAT0 SD0DAT1 SD0DAT2 SD0DAT3 SD0WP SD0CMD GND VDD SD0CD SDCLK ACCNT NC
C8504 0.1
C8505 0.1
R8529 22
R8531 22
TL8502
TO DSC IF CN8402
SD0DAT0 SD0DAT1 SD0DAT2 SD0DAT3 SD0WP SD0CMD SD0CD SDCLK
y20155001a_rev0

NOTE : The parts with marked (*) is not used.

4.15 USB SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*

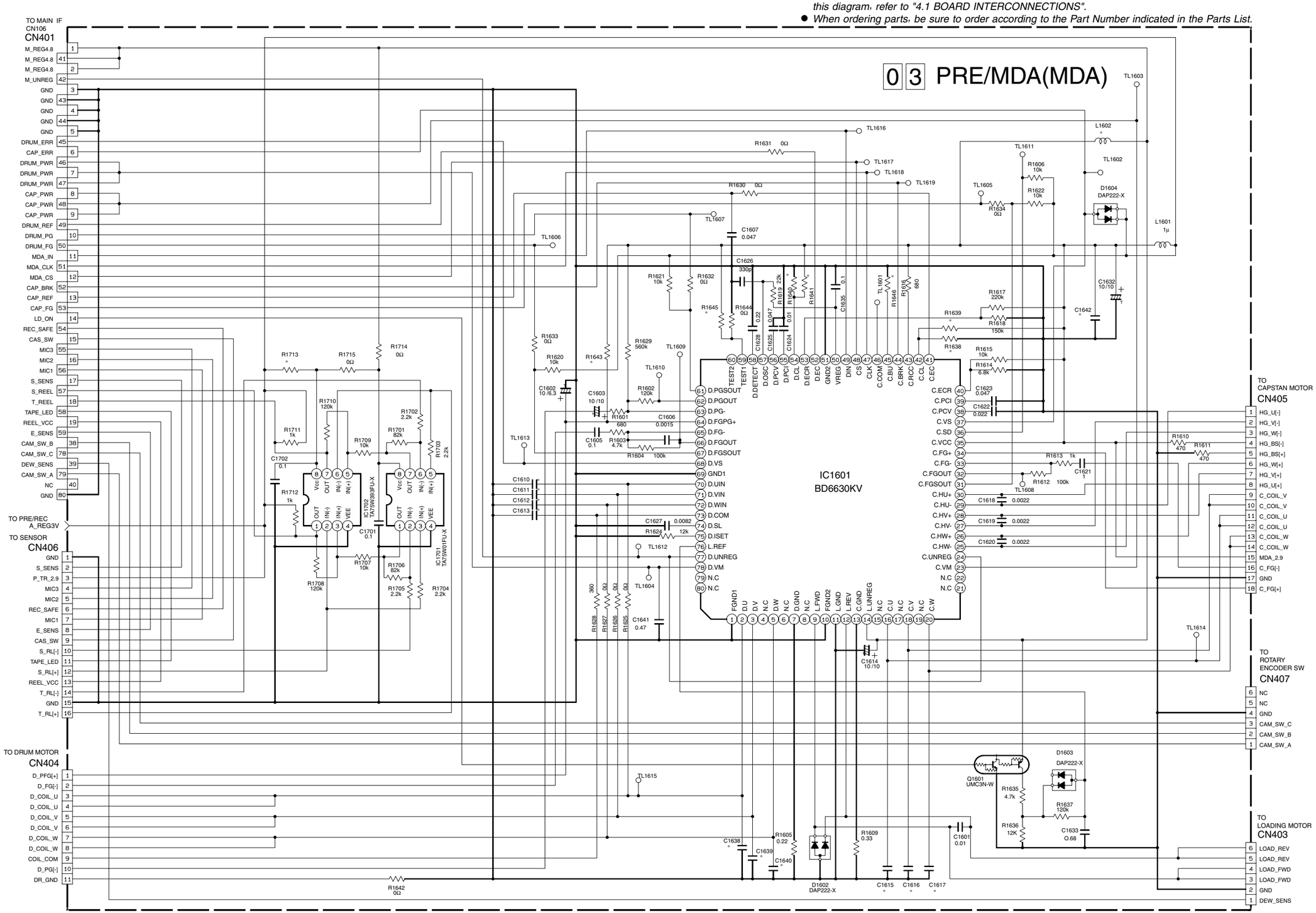


NOTE : The parts with marked (*) is not used.

y20149001a_rev0.1

4.16 MDA SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*

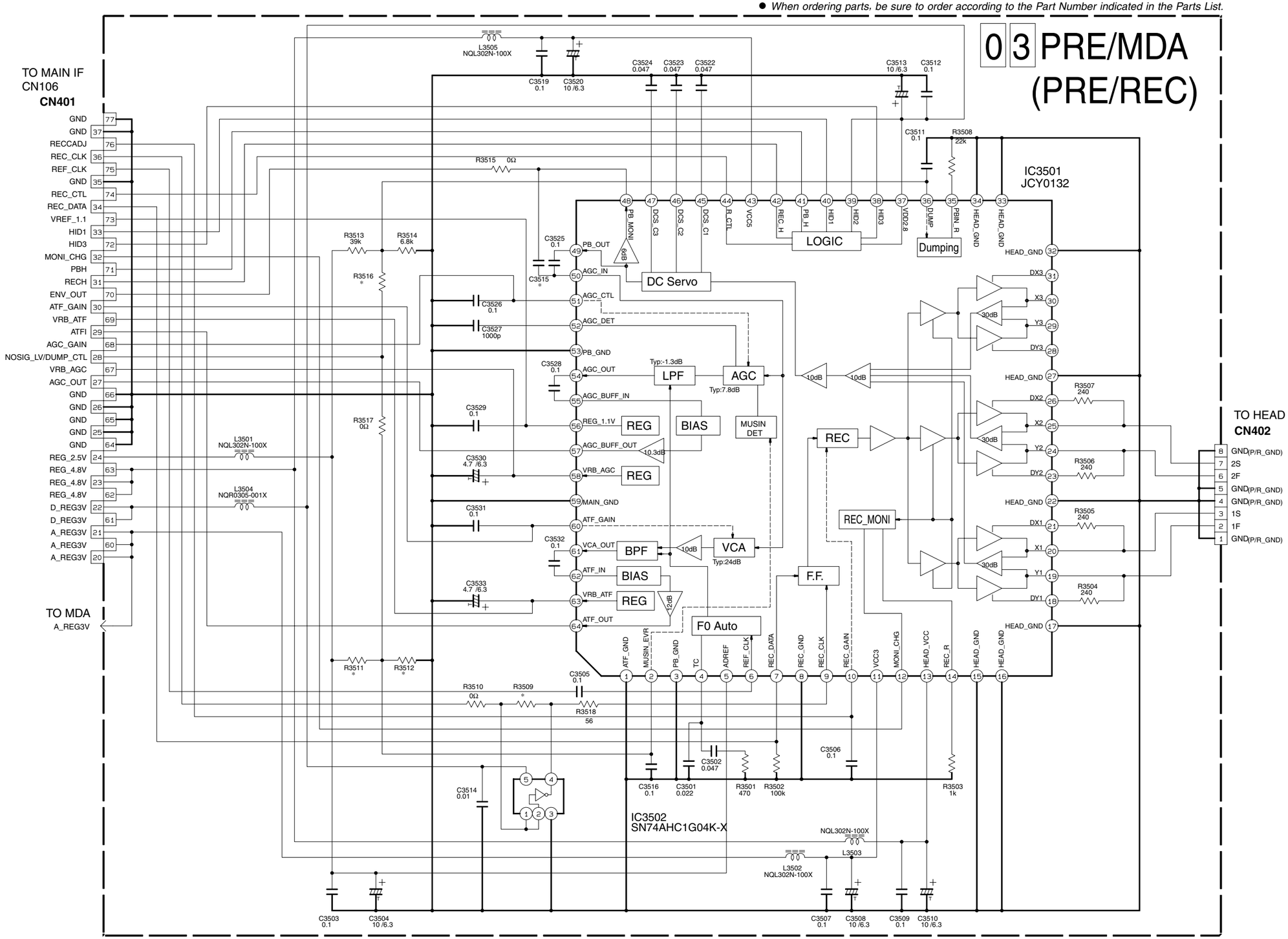


NOTE : The parts with marked (*) is not used.

y20106001a_rev0.1

4.17 PRE/REC SCHEMATIC DIAGRAM

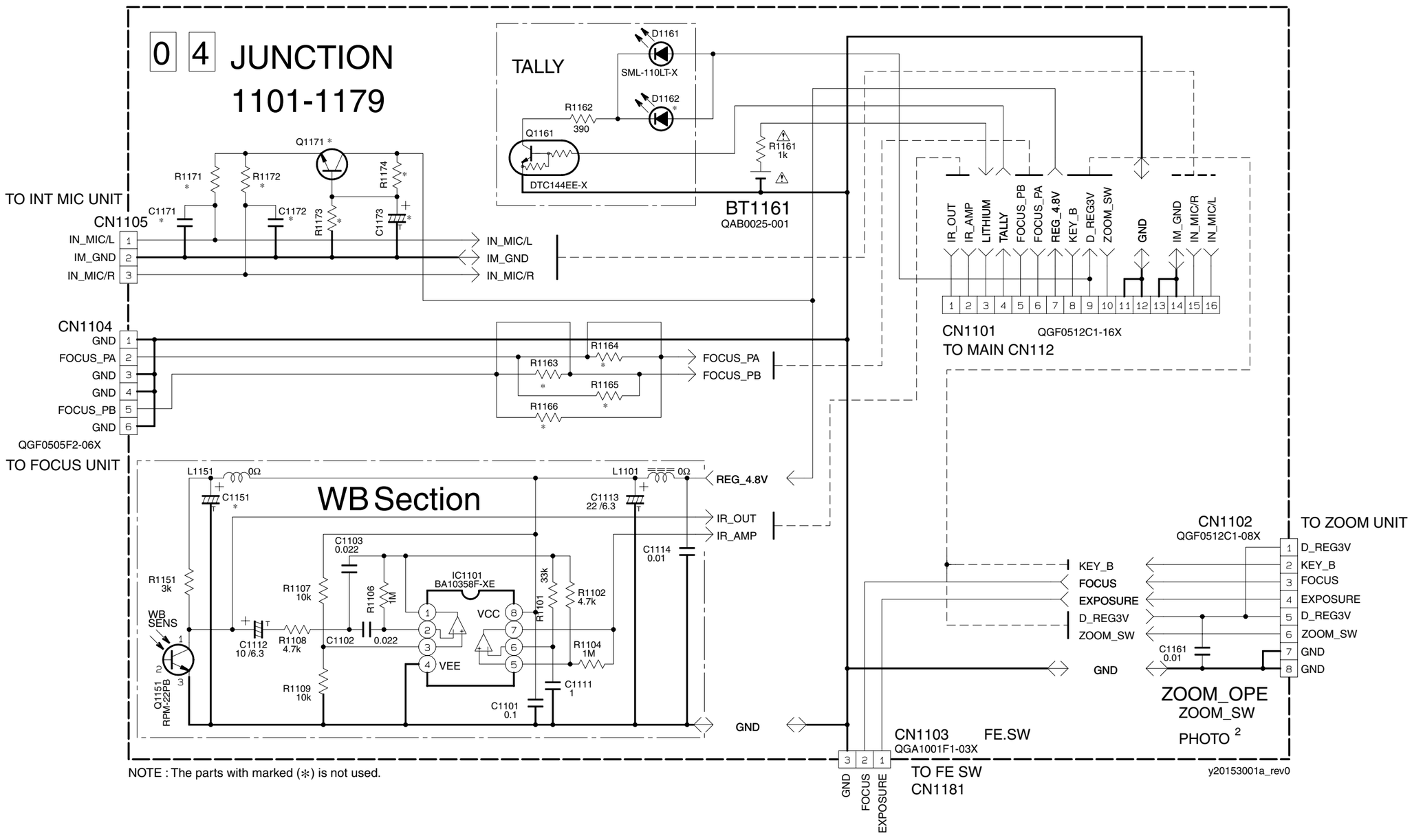
NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



NOTE : The parts with marked (*) is not used.

4.18 JUNCTION SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*

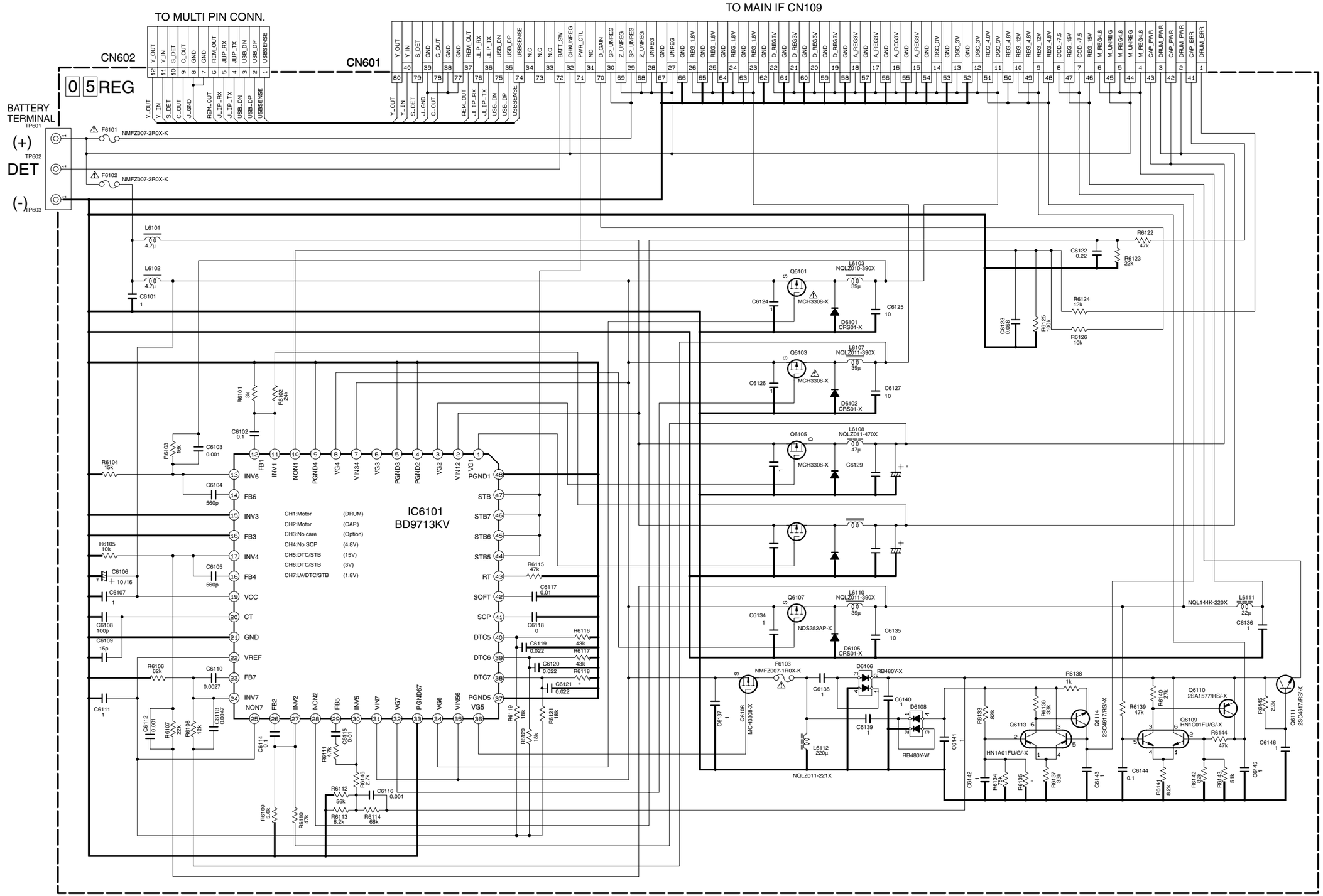


NOTE : The parts with marked (⁎) is not used.

y20153001a_rev0

4.19 REG SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*

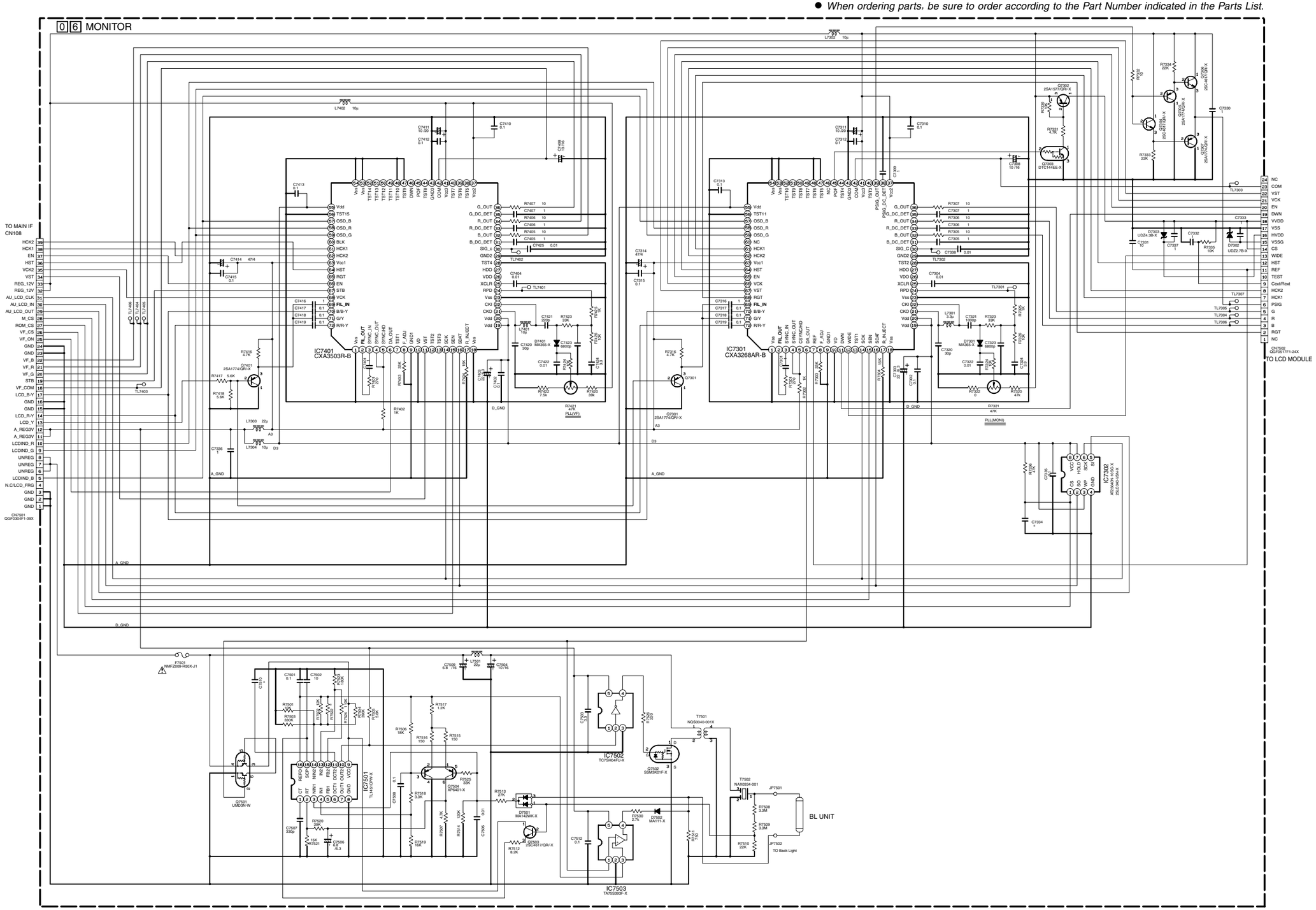


NOTE : The parts with marked (*) is not used.

y20147001a_rev0.1

4.20 MONITOR SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*

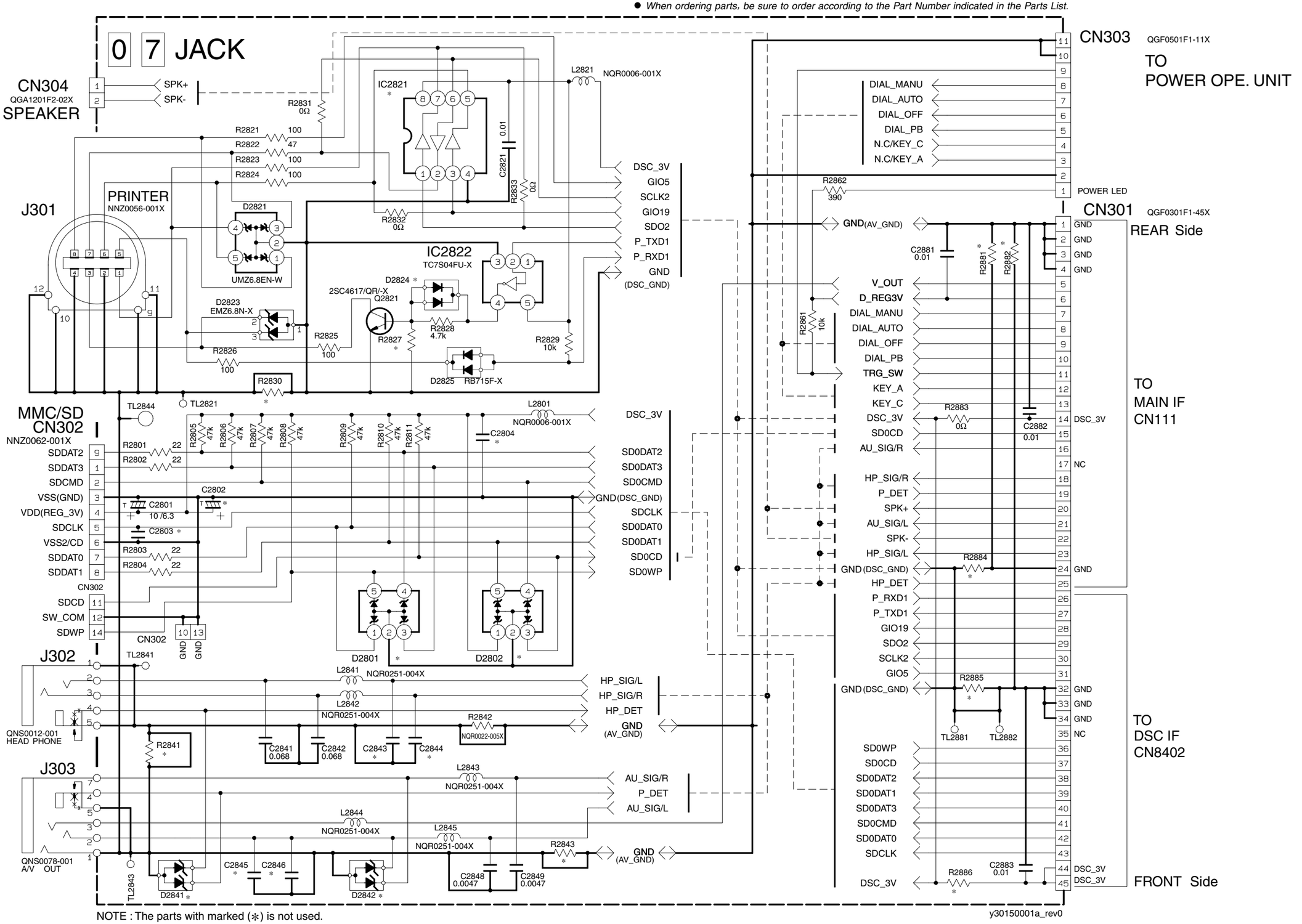


NOTE : The parts with marked (⁎) is not used.

y10240001a_rev0.1

4.21 JACK SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



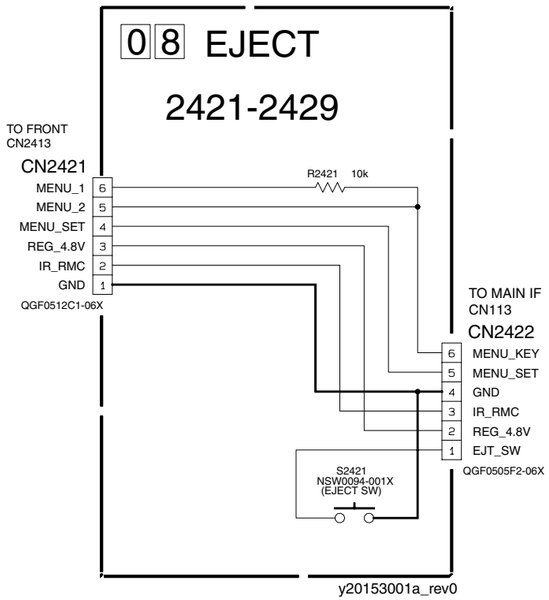
NOTE : The parts with marked (*) is not used.

y30150001a_rev0

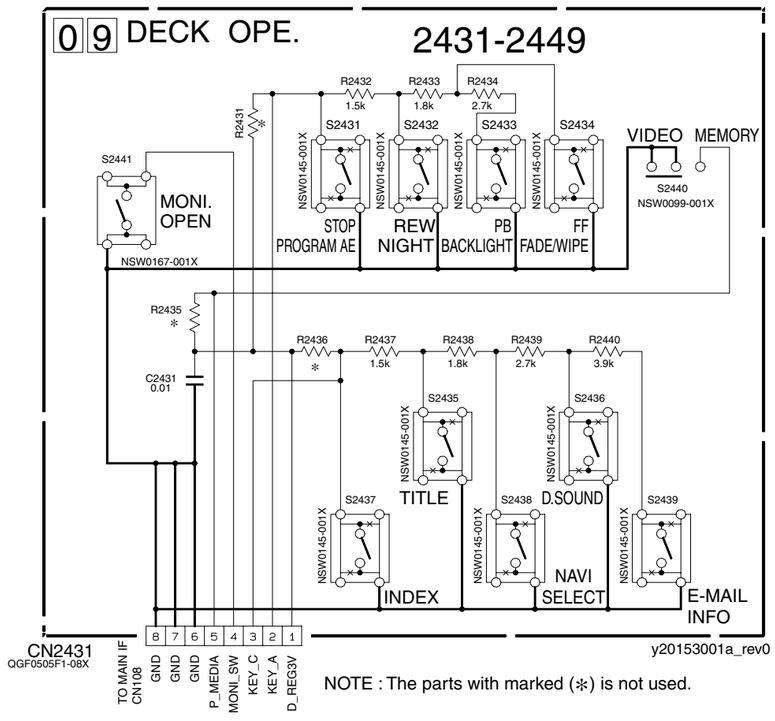
4.22 EJECT, DECK OPE. AND CCD SCHEMATIC DIAGRAMS

- EJECT -

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



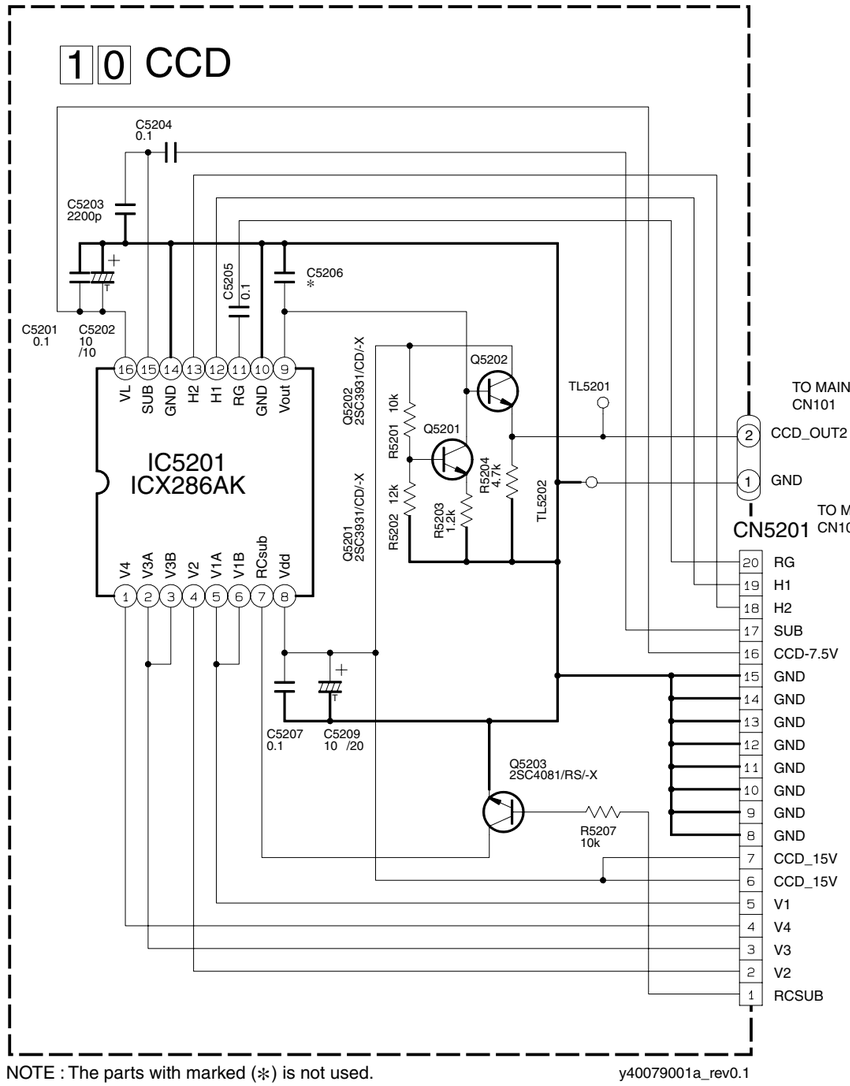
- DECK OPE. -



NOTE : The parts with marked (*) is not used.

- CCD -

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*
- *IC5201 is incorporated in the CCD base assembly. When IC5201 needs replacement, replace the CCD base assembly in whole because it cannot be replaced alone.*

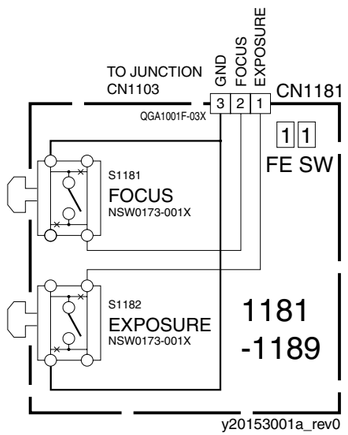


NOTE : The parts with marked (*) is not used.

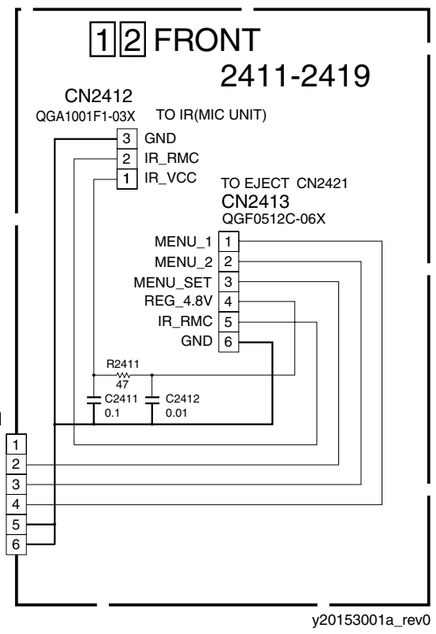
4.23 FE SW, FRONT, ZOOM UNIT, POWER OPE. UNIT, FOCUS UNIT AND SW FPC UNIT SCHEMATIC DIAGRAMS

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*
- *The schematic diagram is only for reference. Avoid replacing individual parts. Replace the entire unit only.*

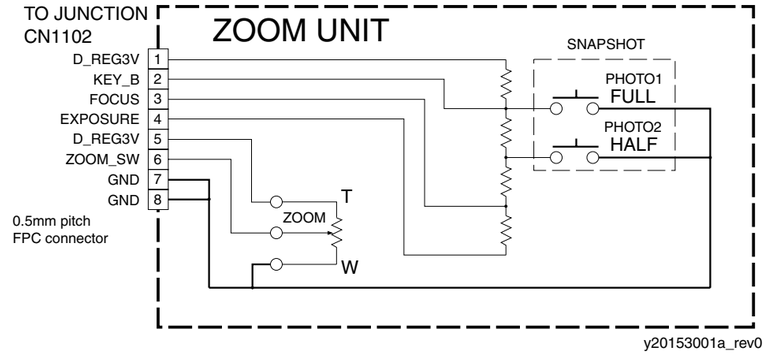
- FE SW -



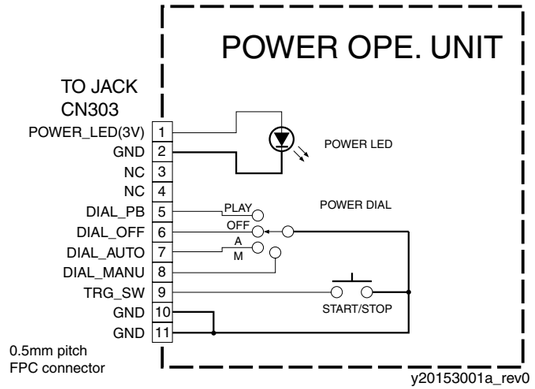
- FRONT -



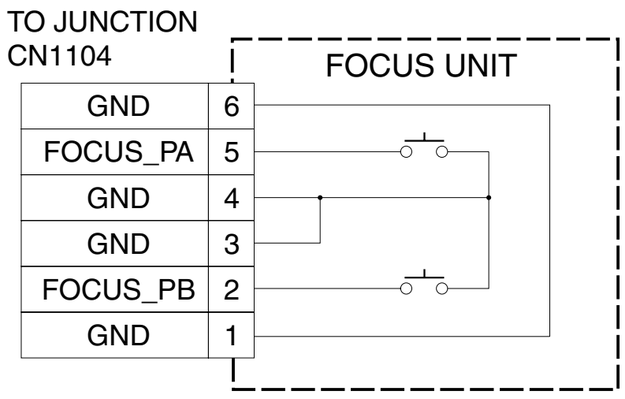
- ZOOM UNIT -



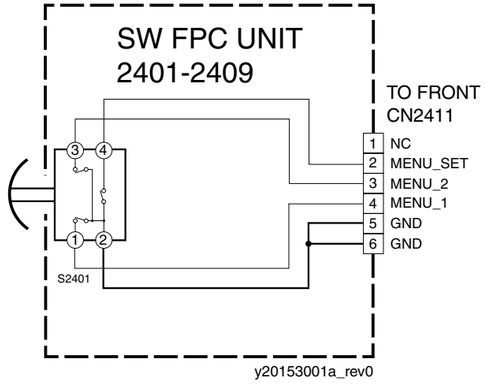
- POWER OPE. UNIT -



- FOCUS UNIT -

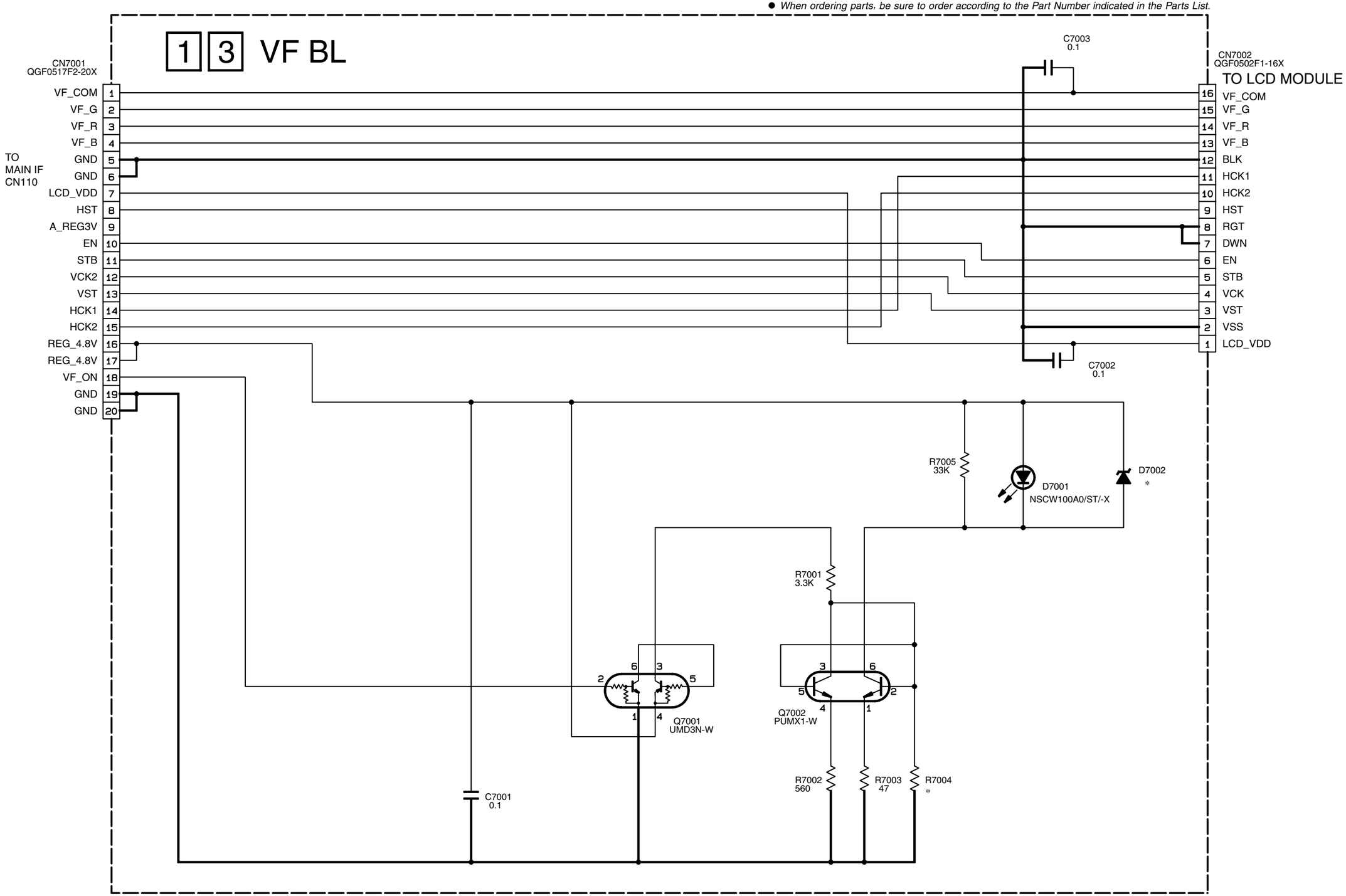


- SW FPC UNIT -



4.24 VF BL SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



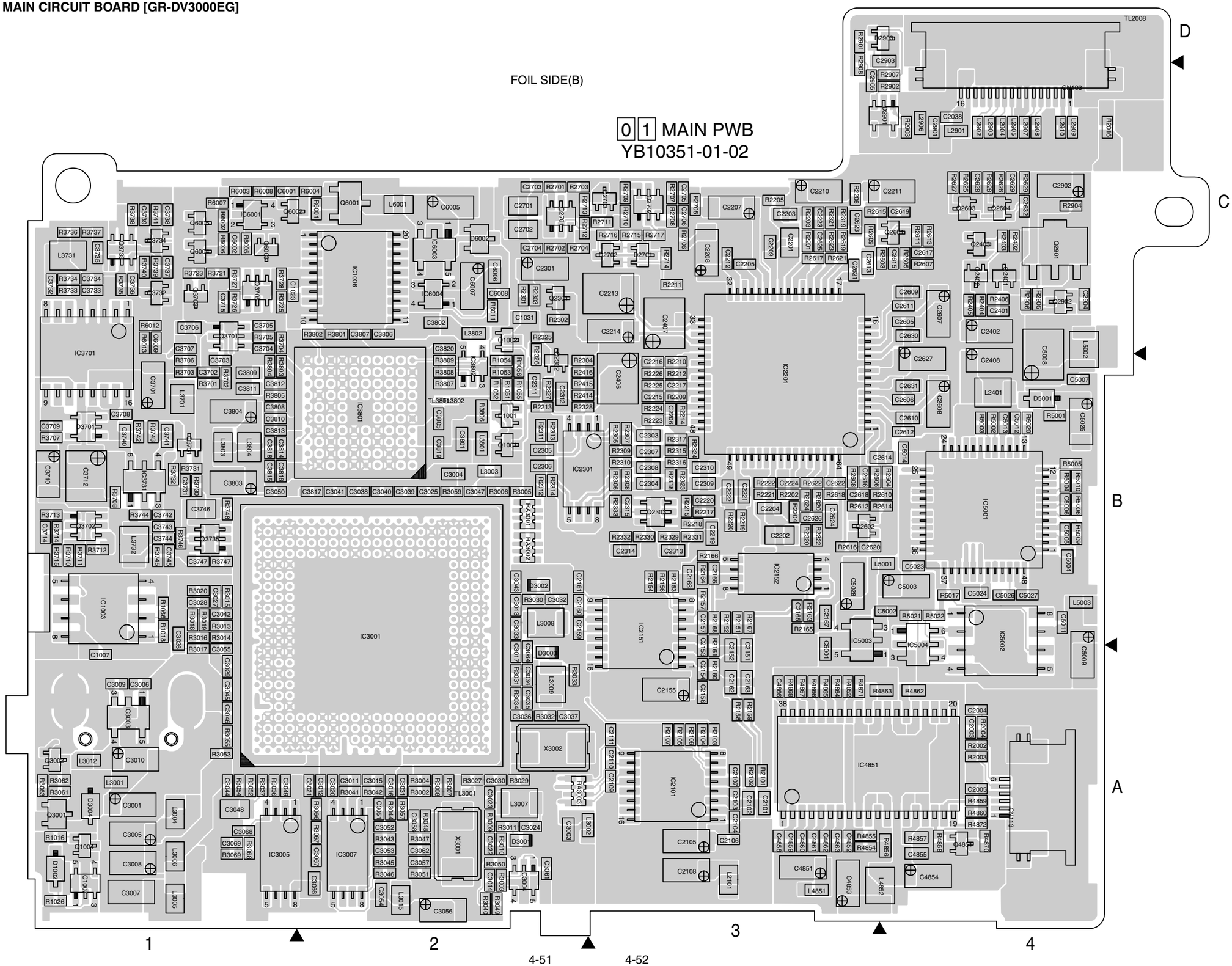
NOTE : The parts with marked (*) is not used.

y30151001a_rev0

4.25 MAIN CIRCUIT BOARD [GR-DV3000EG]

FOIL SIDE(B)

0 1 MAIN PWB
YB10351-01-02



COMPONENT PARTS LOCATION GUIDE <MAIN/YB10351-01-02> (1/2)

REF.NO.	LOCATION		
CAPACITOR			
C1004	A	C	2C
C1006	A	C	2C
C1007	B	C	1A
C1008	A	C	2B
C1011	A	C	2B
C1012	A	C	3B
C1013	A	C	2B
C1014	A	C	3B
C1015	A	C	2B
C1016	A	C	3B
C1017	A	C	3B
C1018	A	C	3B
C1019	A	C	2B
C1023	B	C	1C
C1026	A	C	2C
C1027	A	C	2B
C1028	A	C	2B
C1029	A	C	2B
C1030	A	C	2B
C1031	B	C	2C
C1034	A	C	2B
C1036	A	C	2C
C1037	A	C	2C
C1038	A	C	2B
C1401	A	C	2B
C1402	A	C	2A
C1403	A	C	1B
C1404	A	C	1A
C1405	A	C	2A
C1406	A	C	2A
C1407	A	C	1A
C1408	A	C	1B
C1409	A	C	1A
C1410	A	C	2A
C1411	A	C	1A
C1412	A	C	2A
C1413	A	C	2A
C1414	A	C	2A
C1415	A	C	2A
C2001	A	C	4B
C2002	A	C	4B
C2003	B	C	4A
C2004	B	C	4A
C2005	B	C	4A
C2006	A	C	4A
C2007	A	C	3A
C2008	A	C	3A
C2009	A	C	2A
C2010	A	C	2A
C2011	A	C	2A
C2012	A	C	2A
C2013	A	C	2A
C2014	A	C	1B
C2015	A	C	2B
C2016	A	C	1B
C2017	A	C	1B
C2018	A	C	1B
C2019	A	C	1B
C2020	A	C	1B
C2021	A	C	1B
C2022	A	C	1B
C2023	A	C	1B
C2024	A	C	1B
C2025	A	C	1B
C2026	A	C	1B
C2027	A	C	1B
C2028	A	C	1B
C2029	A	C	1B
C2030	A	C	1C
C2031	A	C	1C
C2032	A	C	2C
C2033	A	C	3C
C2034	A	C	3C
C2035	A	C	3C
C2036	A	C	4C
C2037	A	C	4C
C2038	B	C	4C
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C2105	B	C	3A
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C2110	B	C	3A
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C2157	B	C	3B
C2159	B	C	2B
C2160	B	C	2B
C2161	B	C	2B
C2162	B	C	3A
C2163	B	C	3A
C2165	B	C	3B
C2166	B	C	3B
C2167	B	C	3B
C2168	B	C	3B
C2201	B	C	3C
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C4220	A	C	4B
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C4222	A	C	4B
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C4302	A	C	3A
C4303	A	C	3B
C4304	A	C	3A
C4305	A	C	3A
C4306	A	C	3A
C4307	A	C	3A
C4308	A	C	3A
C4309	A	C	3B
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C4318	A	C	3B
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C4806	A	C	3A
C4807	A	C	3A
C4808	A	C	3A
C4809	A	C	3A
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C4811	A	C	3A
C4812	A	C	3A
C4813	A	C	4A
C4814	A	C	4A
C4815	A	C	3A
C4819	A	C	4A
C4820	A	C	3A
C4822	A	C	4A
C4823	A	C	4A
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C4852	B	C	3A
C4853	B	C	3A
C4854	B	C	4A
C4855	B	C	4A
C4858	B	C	3A
C4859	B	C	3A
C4860	B	C	3A
C4861	B	C	3A
C4862	B	C	3A
C4863	B	C	3A
C4864	A	C	4A
C4865	A	C	4A
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C5002	B	C	4B
C5003	B	C	4B
C5004	B	C	4B
C5005	B	C	4B
C5006	B	C	4B
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C5016	A	C	4B
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C5019	A	C	4B
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C5022	A	C	4B
C5023	B	C	4B
C5024	B	C	4B
C5025	B	C	4B
C5026	B	C	4B
C5027	B	C	4B
C5028	B	C	3B
C6001	B	C	1C
C6002	B	C	1C
C6005	B	C	2C
C6006	B	C	2C
C6007	B	C	2C
C6008	B	C	2C
C6009	B	C	1C
CONNECTOR			
CN101	A	C	4C
CN102	A	C	4B
CN103	B	C	4C
CN104	A	C	4A
CN105	A	C	3A
CN106	A	C	2A
CN107	A	C	1A
CN108	A	C	1B
CN109	A	C	1B
CN110	A	C	3C
CN111	A	C	1C
CN112	A	C	4C
CN113	B	C	4A
CN114	A	C	4C
DIODE			
D1001	B	C	2B
D1002	B	C	1A
D2001	A	C	1C
D2002	A	C	1C
D2003	A	C	1C
D2004	A	C	1C
D2701	B	C	3C
D2702	B	C	3C
D2901	B	C	4C
D2903	B	C	4D
D3001	B	C	2A
D3002	B	C	2B
D3003	B	C	2A
D3004	B	C	1A
D3701	B	C	1B
D4301	A	C	2A
D5001	B	C	4B
D6002	B	C	2C
IC			
IC1001	A	C	2B
IC1002	A	C	2C
IC1003	B	C	1B
IC1006	B	C	2C
IC1007	B	C	1A
IC1401	A	C	2A
IC2101	B	C	3A
IC2151	B	C	3B
IC2152	B	C	3B
IC2201	B	C	3B
IC2301	B	C	2B
IC3001	B	C	2B
IC3002	A	C	2A
IC3003	B	C	1A
IC3004	B	C	2A
IC3005	B	C	1A
IC3007	B	C	2A
IC3701	B	C	1C
IC3731	B	C	1B
IC3801	B	C	2B
IC3802	B	C	2B
IC4201	A	C	4C
IC4202	A	C	4C
IC4301	A	C	3B
IC4302	A	C	3B
IC4303	A	C	3A
IC4802	A	C	3A
IC4803	A	C	3A
IC4804	A	C	4A
IC4807	A	C	3A
IC4851	B	C	3A
IC5001	B	C	4B
IC5002	B	C	4B
IC5003	B	C	3B
IC5004	B	C	4B
IC6001	B	C	1C
IC6003	B	C	2C
IC6004	B	C	2C
COIL			
L1002	A	C	2C
L1401	A	C	1B
L2001	A	C	3C
L2101	B	C	3A
L2401	B	C	4B
L2402	A	C	3C
L2601	A	C	4C
L2602	A	C	4C
L2603	A	C	4C
L2901	B	C	4C
L2902	B	C	4C
L2903	B	C	4C
L2904	B	C	4C
L2905	B	C	4C
L2906	B	C	4C
L2907	B	C	4C
L2908	B	C	4C
L2909	B	C	4C
L2910	B	C	4C
L3001	B	C	1A
L3002	B	C	2A
L3003	B	C	2B
L3004	B	C	1A
L3005	B	C	1A
L3006	B	C	1A
L3007	B	C	2A
L3008	B	C	2B
L3009	B	C	2A
L3010	A	C	1A
L3011	A	C	1A
L3012	B	C	1A
L3014	A	C	2A
L3015	B	C	2A
L3701	B	C	1B
L3731	B	C	1C
L3732	B	C	1B
L3801	B	C	2B
L3802	B	C	2C
L3803	B	C	1B
L3804	B	C	1B
L4201	A	C	4C
L4301	A	C	3A
L4302	A	C	3A
L4303	A	C	3A
L4304	A	C	2B
L4802	A	C	3A
L4851	B	C	3A
L4852	B	C	4A
L4853	A	C	4A
L5001	B	C	4B
L5002	B	C	4C
L5003	B	C	4B
L5004	A	C	4B
L5005	A	C	4B
L5006	A	C	4B
L5007	A	C	4B
L6001	B	C	2C
TRANSISTOR			
Q1001	B	C	2B
Q1002	B	C	2C
Q1003	A	C	1C
Q1004	B	C	1A
Q1401	A	C	2A
Q1402	A	C	2A
Q1403	A	C	2A
Q2301	B	C	2C
Q2302	B	C	2B
Q2303	B	C	3B
Q2401	B	C	4C
Q2402	B	C	4C
Q2403	B	C	4C
Q2601	B	C	4C
Q2602	B	C	3B
Q2603	B	C	4C
Q2604	B	C	4C
Q2701	B	C	2C
Q2702	B	C	3C
Q2703	B	C	3C
Q2901	B	C	4C
Q2902	B	C	4C
Q3001	B	C	1A

COMPONENT PARTS LOCATION GUIDE <MAIN/YB10351-01-02> (2/2)

REF.NO.	LOCATION		
Q3002	B	C	1A
Q3701	B	C	1C
Q3702	B	C	1B
Q3703	B	C	1C
Q3705	B	C	1C
Q3731	B	C	1B
Q3732	B	C	1C
Q3733	B	C	1C
Q3734	B	C	1C
Q3735	B	C	1B
Q4801	A	C	3A
Q4802	A	C	3A
Q4803	A	C	4B
Q4804	A	C	4B
Q4805	A	C	4B
Q4806	A	C	4A
Q4851	B	C	4A
Q6001	B	C	2C
Q6002	B	C	1C
Q6003	B	C	1C
Q6004	B	C	1C
Q6005	B	C	1C
RESISTOR			
R1001	A	C	1A
R1002	A	C	2B
R1003	A	C	3B
R1004	A	C	3B
R1005	A	C	3B
R1006	A	C	3B
R1007	A	C	2B
R1008	A	C	2C
R1011	A	C	2B
R1012	A	C	2B
R1015	A	C	2C
R1016	B	C	1A
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TL1004	A	C	2B
TL1005	A	C	2B
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TL1009	A	C	2C
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TL1011	A	C	1C
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TL1013	A	C	1C
TL1014	A	C	2B
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TL1017	A	C	1C
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TL2005	A	C	1A
TL2006	A	C	1C
TL2007	A	C	4C
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TL4801	A	C	4A
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X1002	A	C	2C
X1401	A	C	2A
X3001	B	C	2A
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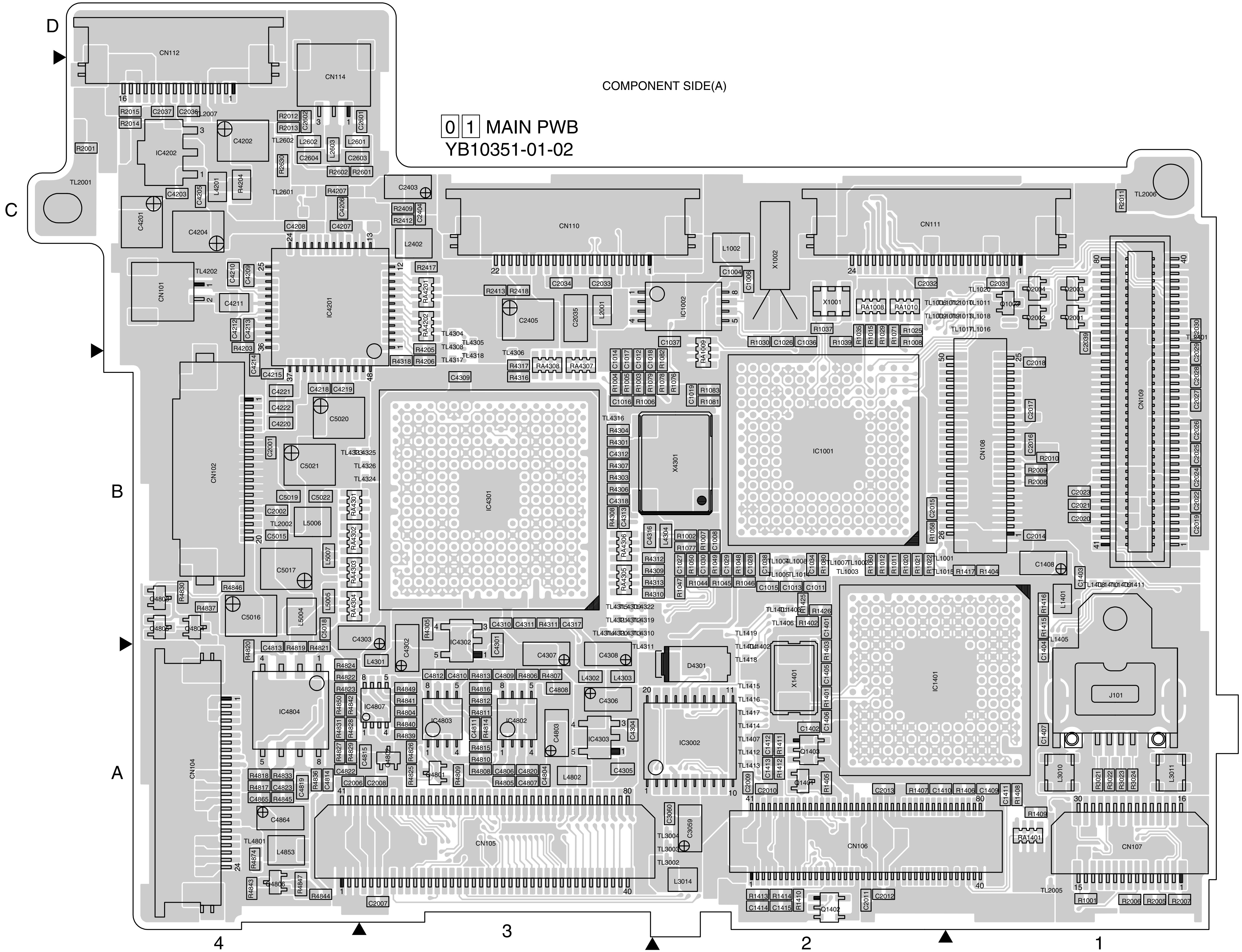
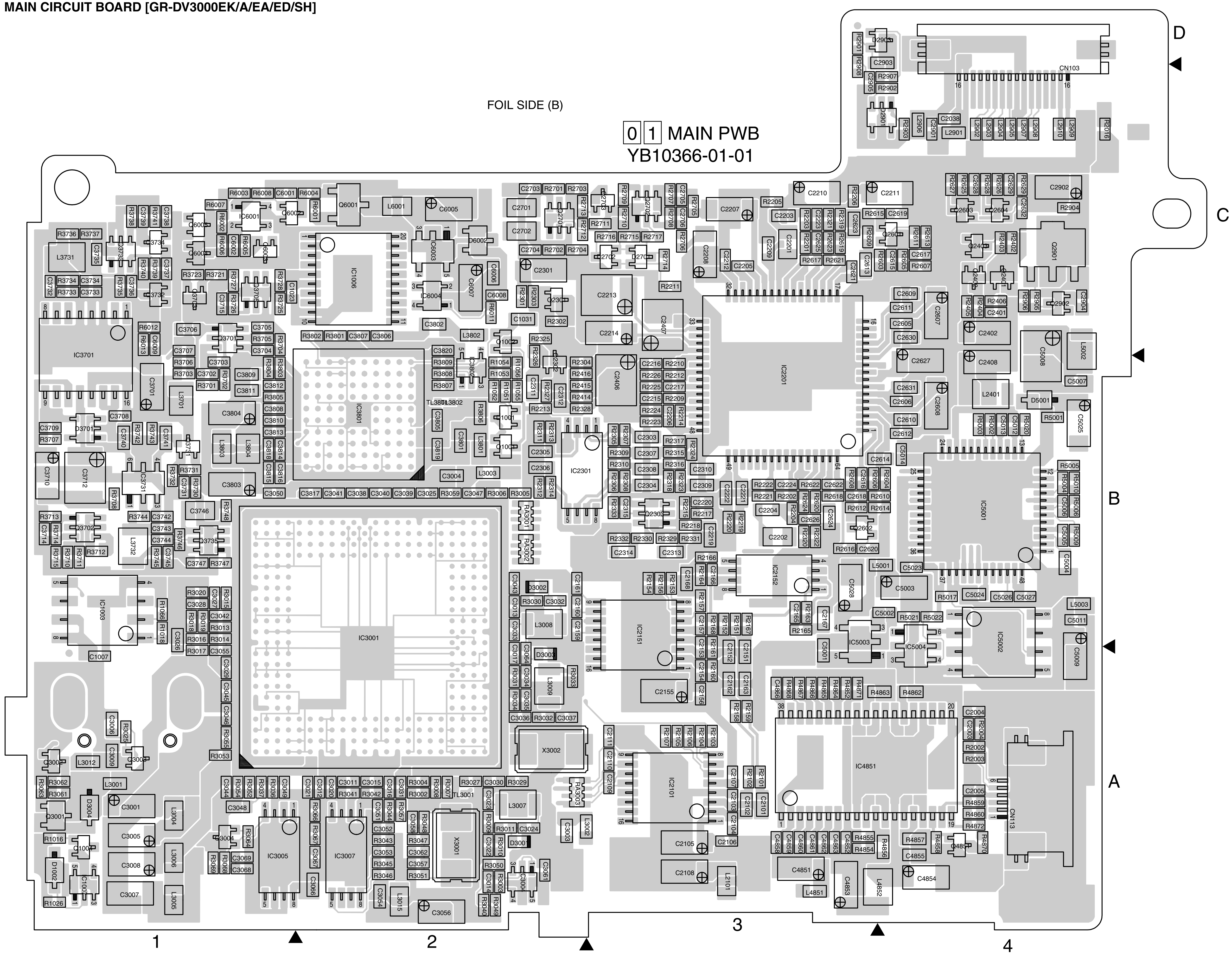
COMPONENT SIDE(A)

0 1 MAIN PWB
YB10351-01-02



4.26 MAIN CIRCUIT BOARD [GR-DV3000EK/A/EA/ED/SH]



COMPONENT PARTS LOCATION GUIDE <MAIN/YB10366-01-01> (1/2)

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C6005	B	C	2C
C6006	B	C	2C
C6007	B	C	2C
C6008	B	C	2C
C6009	B	C	1C
CONNECTOR			
CN101	A	C	4C
CN102	A	C	4B
CN103	B	C	4C
CN104	A	C	4A
CN105	A	C	3A
CN106	A	C	2A
CN107	A	C	1A
CN108	A	C	1B
CN109	A	C	1B
CN110	A	C	3C
CN111	A	C	1C
CN112	A	C	4C
CN113	B	C	4A
CN114	A	C	4C
DIODE			
D1001	B	C	2B
D1002	B	C	1A
D2005	A	C	1C
D2701	B	C	3C
D2702	B	C	3C
D2901	B	C	4C
D2903	B	C	4D
D3001	B	C	2A
D3002	B	C	2B
D3003	B	C	2A
D3004	B	C	1A
D3701	B	C	1B
D5001	B	C	4B
D6002	B	C	2C
IC			
IC1001	A	C	2B
IC1002	A	C	2C
IC1003	B	C	1B
IC1006	B	C	2C
IC1007	B	C	1A
IC1401	A	C	2A
IC2101	B	C	3A
IC2151	B	C	3B
IC2152	B	C	3B
IC2201	B	C	3B
IC2301	B	C	2B
IC3001	B	C	2B
IC3002	A	C	2A
IC3004	B	C	2A
IC3005	B	C	1A
IC3007	B	C	2A
IC3701	B	C	1C
IC3731	B	C	1B
IC3801	B	C	2B
IC3802	B	C	2B
IC4201	A	C	4C
IC4202	A	C	4C
IC4301	A	C	3B
IC4302	A	C	3B
IC4303	A	C	2B
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IC4803	A	C	3A
IC4804	A	C	4A
IC4851	B	C	3A
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IC5002	B	C	4B
IC5003	B	C	3B
IC5004	B	C	4B
IC6001	B	C	1C
IC6003	B	C	2C
IC6004	B	C	2C
COIL			
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L1401	A	C	1B
L2001	A	C	3C
L2101	B	C	3A
L2401	B	C	4B
L2402	A	C	3C
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L3015	B	C	2A
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L4853	A	C	4A
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L5003	B	C	4B
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L5005	A	C	4B
L5006	A	C	4B
L5007	A	C	4B
L6001	B	C	2C
TRANSISTOR			
Q1001	B	C	2B
Q1002	B	C	2C
Q1003	A	C	2C
Q1004	B	C	1A
Q1401	A	C	2A
Q1402	A	C	2A
Q1403	A	C	2A
Q2001	A	C	1C
Q2002	A	C	1C
Q2003	A	C	1C
Q2004	A	C	1C
Q2301	B	C	2C
Q2302	B	C	2B
Q2303	B	C	3B
Q2401	B	C	4C

COMPONENT PARTS LOCATION GUIDE <MAIN/YB10366-01-01>

REF.NO.	LOCATION		
Q2402	B	C	4C
Q2403	B	C	4C
Q2601	B	C	4C
Q2602	B	C	3B
Q2603	B	C	4C
Q2604	B	C	4C
Q2701	B	C	2C
Q2702	B	C	3C
Q2703	B	C	3C
Q2901	B	C	4C
Q2902	B	C	4C
Q3001	B	C	1A
Q3002	B	C	1A
Q3003	B	C	1A
Q3004	B	C	1A
Q3701	B	C	1C
Q3702	B	C	1B
Q3703	B	C	1C
Q3705	B	C	1C
Q3731	B	C	1B
Q3732	B	C	1C
Q3733	B	C	1C
Q3734	B	C	1C
Q3735	B	C	1B
Q4801	A	C	3A
Q4802	A	C	3A
Q4803	A	C	4B
Q4804	A	C	4B
Q4805	A	C	4B
Q4806	A	C	4A
Q4851	B	C	4A
Q6001	B	C	2C
Q6002	B	C	1C
Q6003	B	C	1C
Q6004	B	C	1C
Q6005	B	C	1C
RESISTOR			
R1001	A	C	1A
R1002	A	C	2B
R1003	A	C	3B
R1004	A	C	3C
R1005	A	C	3B
R1006	A	C	3B
R1007	A	C	2B
R1008	A	C	2C
R1011	A	C	2B
R1012	A	C	2B
R1015	A	C	2C
R1016	B	C	1A
R1018	B	C	1B
R1020	A	C	2B
R1021	A	C	2B
R1022	A	C	2B
R1025	A	C	2C
R1026	B	C	1A
R1029	A	C	2C
R1030	A	C	2C
R1035	A	C	2C
R1037	A	C	2C
R1039	A	C	2C
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R1058	A	C	2B
R1060	A	C	2B
R1066	B	C	1B
R1071	A	C	2C
R1076	A	C	2B

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R1077	A	C	2A
R1078	A	C	2B
R1079	A	C	3B
R1080	A	C	2B
R1081	A	C	2B
R1082	A	C	2B
R1083	A	C	2B
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R1403	A	C	2A
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R2002	B	C	4A
R2003	B	C	4A
R2004	B	C	4A
R2005	A	C	1A
R2006	A	C	1A
R2007	A	C	1A
R2008	A	C	1B
R2009	A	C	1B
R2010	A	C	1B
R2011	A	C	1C
R2012	A	C	4C
R2013	A	C	4C
R2014	A	C	4C
R2015	A	C	4C
R2016	B	C	4C
R2101	B	C	3A
R2102	B	C	3A
R2103	B	C	3A
R2104	B	C	3A
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R2213	B	C	2B
R2214	B	C	3B
R2215	B	C	3B
R2217	B	C	3B
R2218	B	C	3B

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R2220	B	C	3B
R2221	B	C	3B
R2222	B	C	3B
R2223	B	C	3B
R2224	B	C	3B
R2225	B	C	3B
R2226	B	C	3B
R2301	B	C	2C
R2302	B	C	2C
R2303	B	C	2C
R2304	B	C	2B
R2305	B	C	3B
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R2625	B	C	4C
R2626	B	C	4C
R2627	B	C	4C
R2628	B	C	4C
R2629	B	C	4C
R2630	A	C	4C

REF.NO.	LOCATION		
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R2702	B	C	2C
R2703	B	C	2C
R2704	B	C	2C
R2705	B	C	3C
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R2716	B	C	3C
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R2905	B	C	4C
R2906	B	C	4C
R2907	B	C	4C
R2908	B	C	3C
R3002	B	C	2A
R3003	B	C	2A
R3004	B	C	2A
R3005	B	C	2B
R3006	B	C	2B
R3007	B	C	2A
R3008	B	C	2A
R3009	B	C	2A
R3010	B	C	2A
R3011	B	C	2A
R3013	B	C	1B
R3014	B	C	1B
R3015	B	C	1B
R3016	B	C	1B
R3017	B	C	1A
R3018	B	C	1B
R3019	B	C	1B
R3020	B	C	1B
R3021	A	C	1A
R3022	A	C	1A
R3023	A	C	1A
R3024	A	C	1A
R3025	B	C	1A
R3027	B	C	2A
R3029	B	C	2A
R3030	B	C	2B
R3031	B	C	2A
R3032	B	C	2A
R3033	B	C	2A
R3034	B	C	2A
R3036	B	C	1A
R3037	B	C	1A
R3040	B	C	2A
R3041	B	C	2A
R3042	B	C	2A
R3043	B	C	2A
R3044	B	C	2A
R3045	B	C	2A
R3046	B	C	2A
R3047	B	C	2A
R3048	B	C	2A
R3049	B	C	2A
R3050	B	C	2A
R3051	B	C	2A
R3052	B	C	1A
R3053	B	C	1A
R3054	B	C	1A
R3055	B	C	1A
R3057	B	C	2A
R3059	B	C	2B
R3061	B	C	1A
R3062	B	C	1A
R3063	B	C	1A
R3064	B	C	1A

REF.NO.	LOCATION		
R3066	B	C	2A
R3067	B	C	2A
R3068	B	C	1A
R3069	B	C	1A
R3701	B	C	1B
R3702	B	C	1B
R3703	B	C	1B
R3704	B	C	1C
R3705	B	C	1C
R3706	B	C	1B
R3707	B	C	1B
R3708	B	C	1B
R3710	B	C	1B
R3711	B	C	1B
R3712	B	C	1B
R3713	B	C	1B
R3714	B	C	1B
R3715	B	C	1B
R3721	B	C	1C
R3723	B	C	1C
R3725	B	C	1C
R3726	B	C	1C
R3727	B	C	1C
R3728	B	C	1C
R3730	B	C	1B
R3731	B	C	1B
R3732	B	C	1B
R3733	B	C	1C
R3734	B	C	1C
R3735	B	C	1C
R3736	B	C	1C
R3737	B	C	1C
R3738	B	C	1C
R3739	B	C	1C
R3740	B	C	1C
R3741	B	C	1C
R3742	B	C	1B
R3743	B	C	1B
R3744	B	C	1B
R3745	B	C	1B
R3746	B	C	1B
R3747	B	C	1B
R3748	B	C	1B
R3801	B	C	2C
R3802	B	C	2C
R3803	B	C	1B
R3804	B	C	1B
R3805	B	C	1B
R3806	B	C	2B
R3807	B	C	2B
R3808	B	C	2B
R3809	B	C	2B
R4203	A	C	4C
R4204	A	C	4C
R4205	A	C	3B
R4206	A	C	3B
R4207	A	C	3C
R4301	A	C	3B
R4303	A	C	3B
R4304	A	C	3B
R4305	A	C	2A
R4306	A	C	3B
R4307	A	C	3B
R4308	A	C	3B
R4309	A	C	3B
R4310	A	C	3B
R4311	A	C	2B
R4312	A	C	3B
R4313	A	C	3B
R4316	A	C	3B
R4317	A	C	3B
R4318	A	C	3B
R4804	A	C	3A
R4805	A	C	3A
R4806	A	C	3A
R4807	A	C	3A
R4808	A	C	3A
R4809	A	C	3A
R4810	A	C	3A

REF.NO.	LOCATION		
R4811	A	C	3A
R4812	A	C	3A
R4814	A	C	3A
R4815	A	C	3A
R4816	A	C	3A
R4817	A	C	4A
R4818	A	C	4A
R4819	A	C	4A
R4820	A	C	4A
R4821	A	C	4A
R4822	A	C	4A
R4823	A	C	4A
R4824	A	C	4B
R4825	A	C	4A
R4826	A	C	3A
R4827	A	C	4A
R4828	A	C	4A
R4829	A	C	3A
R4830	A	C	4B
R4831	A	C	4A
R4833	A	C	4A
R4836	A	C	4A
R4837	A	C	4B
R4843	A	C	4A
R4844	A	C	4A
R4845	A	C	4A
R4846	A	C	4B
R4847	A	C	4A
R4850	A	C	4A
R4852	B	C	3A
R4854	B	C	3A
R4855	B	C	3A
R4856	B	C	4A
R4857	B	C	4A
R4858	B	C	4A
R4859	B	C	4A
R4860	B	C	4A
R4862	B	C	4A
R4863	B	C	4A
R4864	B	C	3A
R4865	B	C	3A
R4866	B	C	3A
R4867	B	C	3A
R4868	B	C	3A
R4870	B	C	4A
R4871	B	C	3A
R4872	B	C	4A
R4874	A	C	4A
R5001	B	C	4B
R5002	B	C	4B
R5003	B	C	4B
R5004	B	C	4B
R5005	B	C	4B
R5006	B	C	4B
R5009	B	C	4B
R5010	B	C	4B
R5017	B	C	4B
R5020	B	C	4B
R5021	B	C	4B
R5022	B	C	4B
R6001	B	C	2C
R6002	B	C	1C
R6003	B	C	1C
R6004	B	C	2C
R6005	B	C	1C
R6006	B	C	1C
R6007	B	C	1C
R6008	B	C	1C
R6011	B	C	2C
R6012	B	C	1C
R6013	B	C	1C
RA1008	A	C	2C
RA1009	A	C	2B
RA1010	A	C	2C
RA1401	A	C	1A
RA2001	A	C	1C
RA2002	A	C	1C
RA3001	B	C	2B
RA3002	B	C	2B

REF.NO.	LOCATION		
RA3003	B	C	2A
RA4201	A	C	3C
RA4202	A	C	3C
RA4301	A	C	3A
RA4302	A	C	3A
RA4303	A	C	3A
RA4304	A	C	3A
RA4305	A	C	3B
RA4306	A	C	3B
RA4307	A	C	3B
RA4308	A	C	3B
OTHER			
J101	A	D	1A
TL1001	A	C	2B
TL1002	A	C	2B
TL1003	A	C	2B
TL1004	A	C	2B
TL1005	A	C	2B
TL1007	A	C	2B
TL1008	A	C	2B
TL1014	A	C	2B
TL1015	A	C	2B
TL1401	A	C	2B
TL1402	A	C	2B
TL1403	A	C	2B
TL1404	A	C	2B
TL1405	A	C	1B
TL1406	A	C	2B
TL1407	A	C	2A
TL1408	A	C	1B
TL1409	A	C	1B
TL1410	A	C	1B
TL1411	A	C	1B
TL1412	A	C	2A
TL1413	A	C	2A
TL1414	A	C	2A
TL1415	A	C	2A
TL1416	A	C	2A
TL1417	A	C	2A
TL1418	A	C	2A
TL1419	A	C	2B
TL2001	A	C	4C
TL2002	A	C	4B
TL2005	A	C	1A
TL2006	A	C	1C
TL2007	A	C	4C
TL2401	A	C	1C
TL2402	A	C	4B
TL2601	A	C	4C
TL2602	A	C	4C
TL3001	B	C	2A
TL3002	A	C	2A
TL3003	A	C	2A
TL3004	A	C	2A
TL3801	B	C	2B
TL3802	B	C	2B
TL4202	A	C	4C
TL4304	A	C	4B
TL4305	A	C	4B
TL4306	A	C	3B
TL4308	A	C	4B
TL4316	A	C	2B
TL4317	A	C	4B
TL4318	A	C	4B
TL4323	A	C	3B
TL4324	A	C	2B
TL4325	A	C	2B
TL4801	A	C	4A
X1001	A	C	2C
X1002	A	C	2C
X1401	A	C	2A
X3001	B	C	2A
X3002	B	C	2A
X4301	A	C	3C

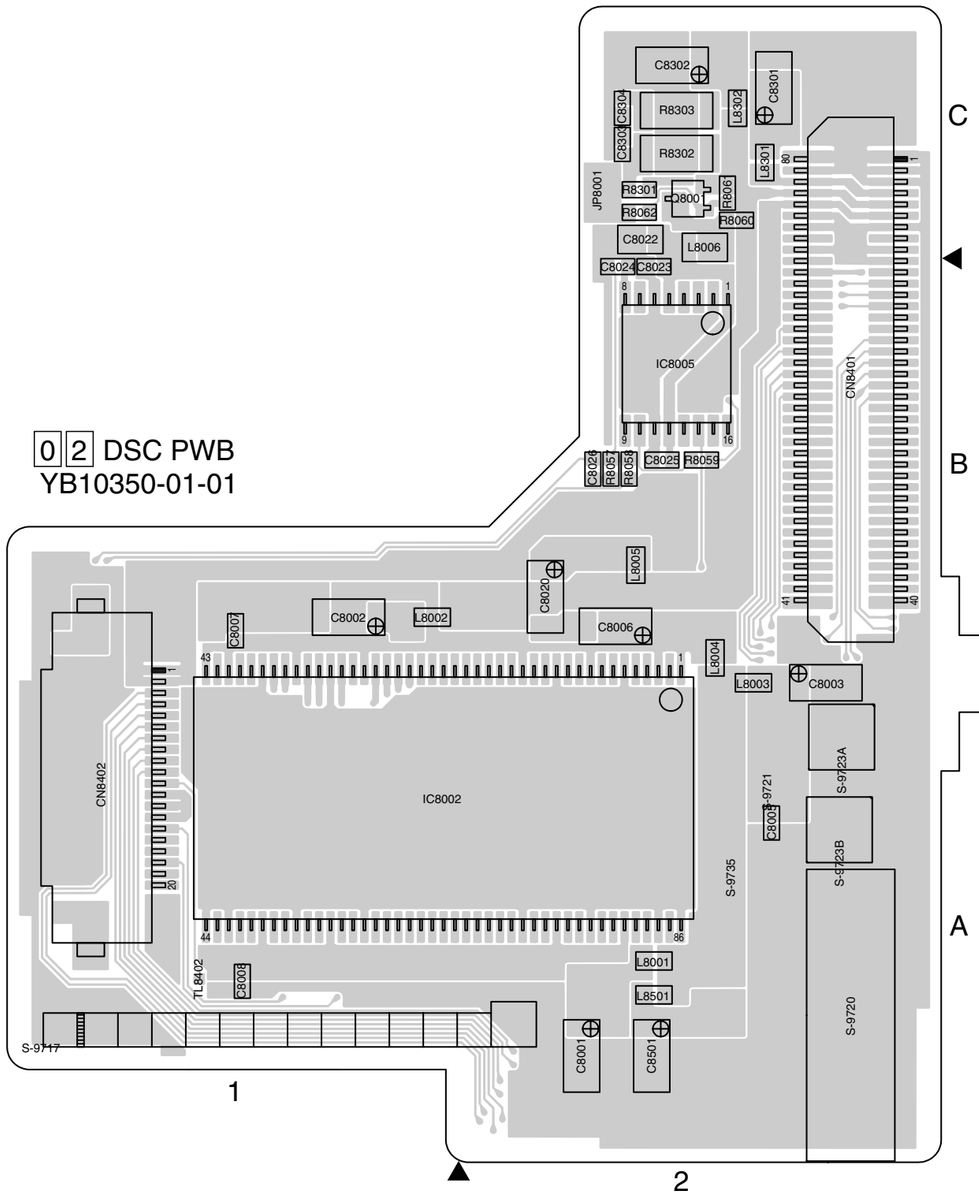
COMPONENT SIDE (A)

0 1 MAIN PWB
YB10366-01-01

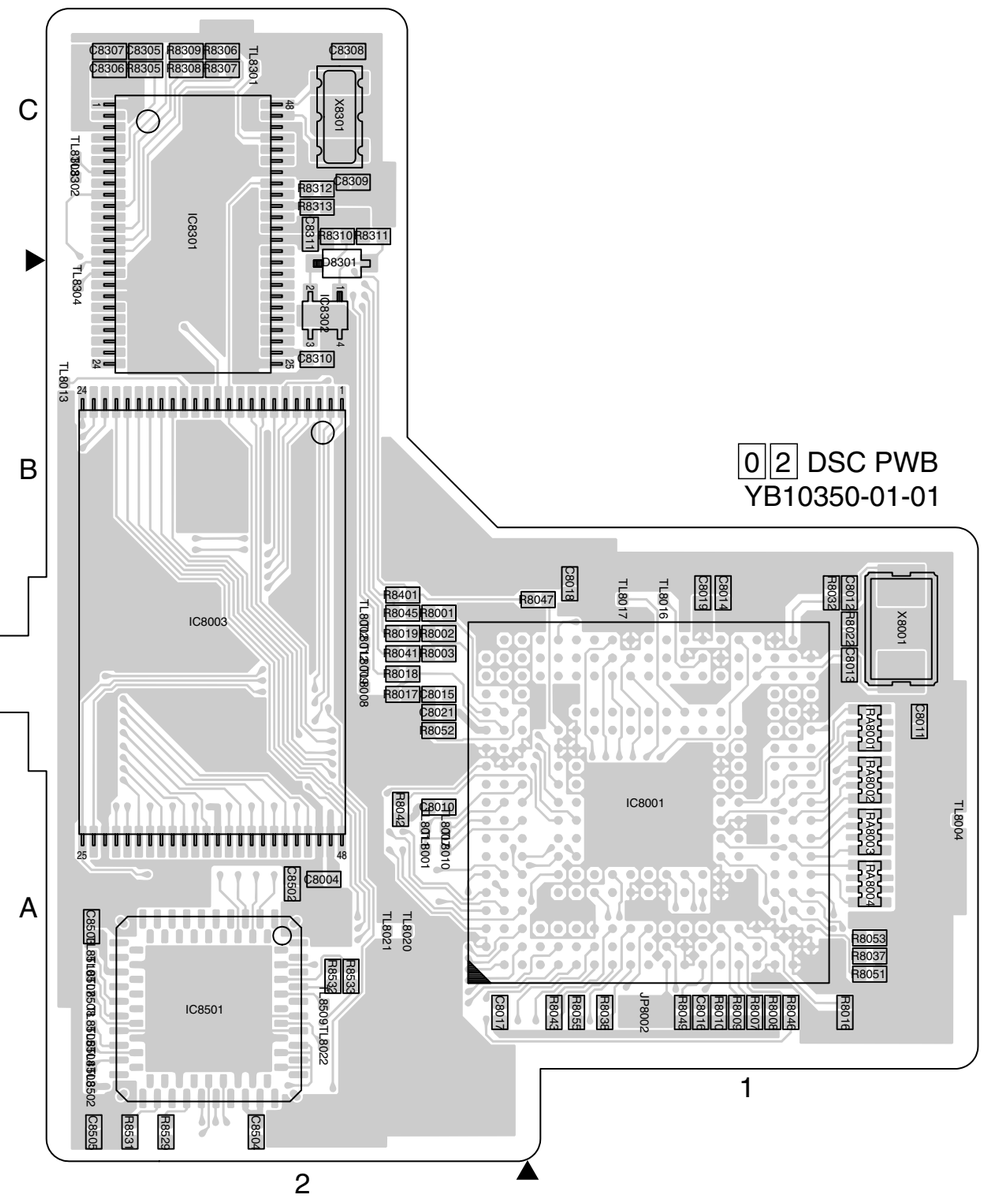
D
C
B
A
4
3
2
1

4.27 DSC CIRCUIT BOARD

FOIL SIDE(B)



COMPONENT SIDE(A)

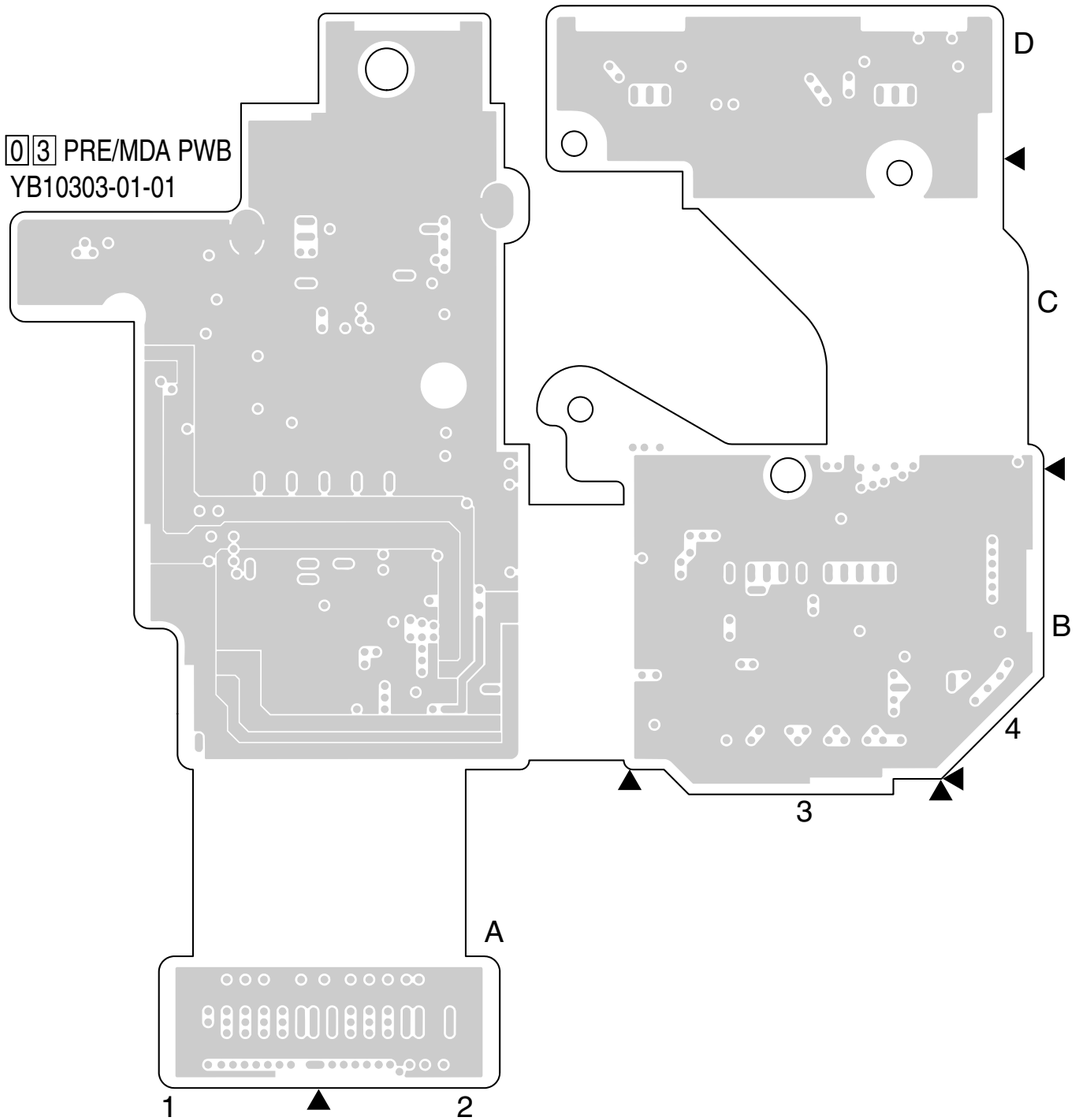


COMPONENT PARTS LOCATION GUIDE <DSC/YB10350-01-01>

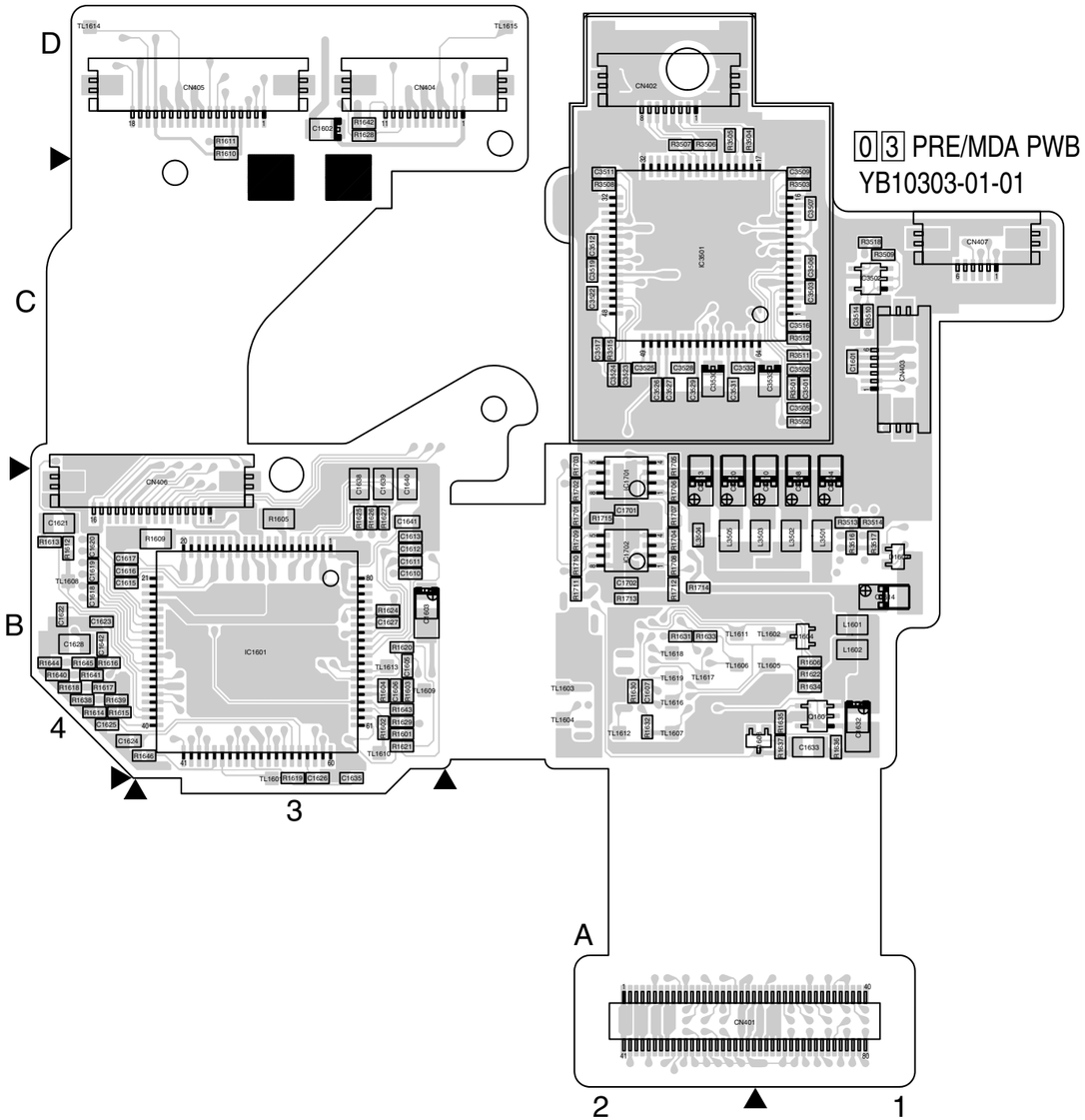
REF.NO.	LOCATION		
CAPACITOR			
C8001	B	C	2A
C8002	B	C	1B
C8003	B	C	2B
C8004	A	C	2A
C8005	B	C	2A
C8006	B	C	2B
C8007	B	C	1B
C8008	B	C	1A
C8010	A	C	2A
C8011	A	C	1A
C8012	A	C	1B
C8013	A	C	1B
C8014	A	C	1B
C8015	A	C	2B
C8016	A	C	1A
C8017	A	C	2A
C8018	A	C	1B
C8019	A	C	1B
C8020	B	C	2B
C8021	A	C	2A
C8022	B	C	2C
C8023	B	C	2B
C8024	B	C	2B
C8025	B	C	2B
C8026	B	C	2B
C8301	B	C	2C
C8302	B	C	2C
C8303	B	C	2C
C8304	B	C	2C
C8305	A	C	2C
C8306	A	C	2C
C8307	A	C	2C
C8308	A	C	2C
C8309	A	C	2C
C8310	A	C	2B
C8311	A	C	2C
C8501	B	C	2A
C8502	A	C	2A
C8503	A	C	2A
C8504	A	C	2A
C8505	A	C	2A
CONNECTOR			
CN8401	B	C	2B
CN8402	B	C	1B
DIODE			
D8301	A	C	2B
IC			
IC8001	A	C	1A
IC8002	B	C	1A
IC8003	A	C	2B
IC8005	B	C	2B
IC8301	A	C	2C
IC8302	A	C	2B
IC8501	A	C	2A
COIL			
L8001	B	C	2A
L8002	B	C	1B
L8003	B	C	2B
L8004	B	C	2B
L8005	B	C	2B
L8006	B	C	2C
L8301	B	C	2C
L8302	B	C	2C
L8501	B	C	2A
TRANSISTOR			
Q8001	B	C	2C
RESISTOR			
R8001	A	C	2B
R8002	A	C	2B
R8003	A	C	2B
R8007	A	C	1A
R8008	A	C	1A
R8009	A	C	1A
R8010	A	C	1A
R8016	A	C	1A
R8017	A	C	2B
R8018	A	C	2B
R8019	A	C	2B
R8022	A	C	1B
R8032	A	C	1B
R8037	A	C	1A
R8038	A	C	1A
R8041	A	C	2B
R8042	A	C	2A
R8043	A	C	1A
R8045	A	C	2B
R8046	A	C	1A
R8047	A	C	1B
R8049	A	C	1A
R8051	A	C	1A
R8052	A	C	2A
R8053	A	C	1A
R8055	A	C	1A
R8057	B	C	2B
R8058	B	C	2C
R8059	B	C	2B
R8060	B	C	2C
R8061	B	C	2C
R8062	B	C	2C
R8301	B	C	2C
R8302	B	C	2C
R8303	B	C	2C
R8305	A	C	2C
R8306	A	C	2C
R8307	A	C	2C
R8308	A	C	2C
R8309	A	C	2C
R8310	A	C	2C
R8311	A	C	2C
R8312	A	C	2C
R8313	A	C	2C
R8401	A	C	2B
R8529	A	C	2A
R8531	A	C	2A
R8532	A	C	2A
R8533	A	C	2A
RA8001	A	C	1A
RA8002	A	C	1A
RA8003	A	C	1A
RA8004	A	C	1A
OTHER			
JP8001	B	C	2C
JP8002	A	C	1A
TL8001	A	C	2A
TL8002	A	C	2B
TL8004	A	C	1A
TL8007	A	C	2A
TL8008	A	C	2B
TL8009	A	C	2B
TL8010	A	C	2A
TL8011	A	C	2A
TL8012	A	C	2B
TL8013	A	C	3B
TL8016	A	C	1B
TL8017	A	C	1B
TL8020	A	C	2A
TL8021	A	C	2A
TL8022	A	C	2A
TL8301	A	C	2C
TL8302	A	C	3C
TL8303	A	C	3C
TL8304	A	C	2B
TL8402	B	C	1A
TL8502	A	C	2A
TL8503	A	C	2A
TL8504	A	C	2A
TL8505	A	C	2A
TL8507	A	C	2A
TL8508	A	C	2A
TL8509	A	C	2A
TL8510	A	C	2A
X8001	A	C	1B
X8301	A	C	2C

4.28 PRE/MDA CIRCUIT BOARD

FOIL SIDE(B)



COMPONENT SIDE(A)



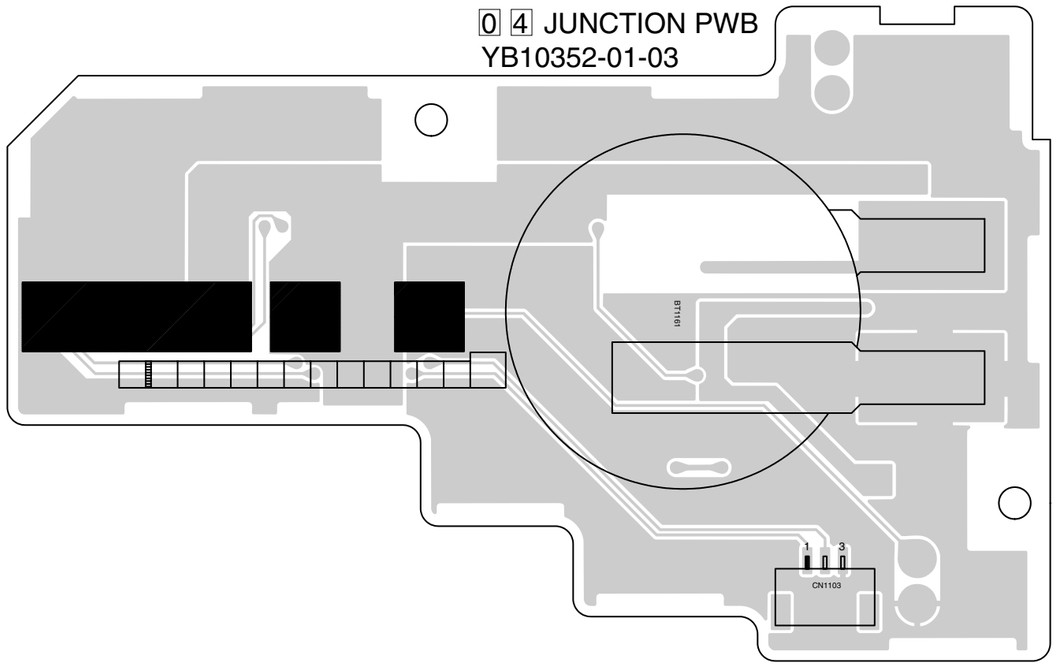
COMPONENT PARTS LOCATION GUIDE <PRE/MDA /YB10303-01-01>

REF.NO.	LOCATION		
CAPACITOR			
C1601	A	C	1C
C1602	A	C	3D
C1603	A	C	3B
C1605	A	C	3B
C1606	A	C	3B
C1607	A	C	2B
C1610	A	C	3B
C1611	A	C	3B
C1612	A	C	3B
C1613	A	C	3B
C1614	A	C	1B
C1615	A	C	4B
C1616	A	C	4B
C1617	A	C	4B
C1618	A	C	4B
C1619	A	C	4B
C1620	A	C	4B
C1621	A	C	4B
C1622	A	C	4B
C1623	A	C	4B
C1624	A	C	4B
C1625	A	C	4B
C1626	A	C	3A
C1627	A	C	3B
C1628	A	C	4B
C1632	A	C	1B
C1633	A	C	1B
C1635	A	C	3A
C1638	A	C	3B
C1639	A	C	3B
C1640	A	C	3B
C1641	A	C	3B
C1642	A	C	4B
C1701	A	C	2B
C1702	A	C	2B
C3501	A	C	1C
C3502	A	C	1C
C3503	A	C	1C
C3504	A	C	1B
C3505	A	C	1C
C3506	A	C	1C
C3507	A	C	1C
C3508	A	C	1B
C3509	A	C	1C
C3510	A	C	1B
C3511	A	C	2C
C3512	A	C	2C
C3513	A	C	2B
C3514	A	C	1C
C3516	A	C	1C
C3517	A	C	2C
C3519	A	C	2C
C3520	A	C	2B
C3522	A	C	2C
C3523	A	C	2C
C3524	A	C	2C
C3525	A	C	2C
C3526	A	C	2C
C3527	A	C	2C
C3528	A	C	2C
C3529	A	C	2C
C3530	A	C	2C
C3531	A	C	2C
C3532	A	C	2C
C3533	A	C	1C
CONNECTOR			
CN401	A	C	2A
CN402	A	C	2D
CN403	A	C	1C
CN404	A	C	2D
CN405	A	C	3D
CN406	A	C	3B
CN407	A	C	1C
DIODE			
D1602	A	C	1B
D1603	A	C	1B
D1604	A	C	1B
IC			
IC1601	A	C	3B
IC1701	A	C	2B
IC1702	A	C	2B
IC3501	A	C	2C
IC3502	A	C	1C
COIL			
L1601	A	C	1B
L1602	A	C	1B
L3501	A	C	1B
L3502	A	C	1B
L3503	A	C	1B
L3504	A	C	2B
L3505	A	C	2B
TRANSISTOR			
Q1601	A	C	1B
RESISTOR			
R1601	A	C	3B
R1602	A	C	3B
R1603	A	C	3B
R1604	A	C	3B
R1605	A	C	3B
R1606	A	C	1B
R1609	A	C	3B
R1610	A	C	3D
R1611	A	C	3D
R1612	A	C	4B
R1613	A	C	4B
R1614	A	C	4B
R1615	A	C	4B
R1616	A	C	4B
R1617	A	C	4B
R1618	A	C	4B
R1619	A	C	3A
R1620	A	C	3B
R1621	A	C	3B
R1622	A	C	1B
R1624	A	C	3B
R1625	A	C	3B
R1626	A	C	3B
R1627	A	C	3B
R1628	A	C	3D
R1629	A	C	3B
R1630	A	C	2B
R1631	A	C	2B
R1632	A	C	2B
R1633	A	C	2B
R1634	A	C	1B
R1635	A	C	1B
R1636	A	C	1B
R1637	A	C	1B
R1638	A	C	4B
R1639	A	C	4B
R1640	A	C	4B
R1641	A	C	4B
R1642	A	C	4B
R1643	A	C	3B
R1644	A	C	4B
R1645	A	C	4B
R1646	A	C	3B
R1701	A	C	2B
R1702	A	C	2B
R1703	A	C	2C
R1704	A	C	2B
R1705	A	C	2C
R1706	A	C	2B
R1707	A	C	2B
R1708	A	C	2B
R1709	A	C	2B
R1710	A	C	2B
R1711	A	C	2B
R1712	A	C	2B
R1713	A	C	2B
R1714	A	C	2B
R1715	A	C	2B
R3501	A	C	1C
R3502	A	C	1C
R3503	A	C	1C
R3504	A	C	2D
R3505	A	C	2D
R3506	A	C	2D
R3507	A	C	2C
R3508	A	C	1C
R3509	A	C	1C
R3510	A	C	1C
R3511	A	C	1C
R3512	A	C	1C
R3513	A	C	1B
R3514	A	C	1B
R3515	A	C	2C
R3516	A	C	4B
R3517	A	C	1B
R3518	A	C	1C
OTHER			
PC04	A	C	1D
PC05	A	C	1D
TL1601	A	C	3A
TL1602	A	C	1B
TL1603	A	C	2B
TL1604	A	C	2B
TL1605	A	C	1B
TL1606	A	C	2B
TL1607	A	C	2B
TL1608	A	C	4B
TL1609	A	C	3B
TL1610	A	C	3B
TL1611	A	C	2B
TL1612	A	C	2B
TL1613	A	C	3B
TL1614	A	C	4D
TL1615	A	C	2D
TL1616	A	C	2B
TL1617	A	C	2B
TL1618	A	C	2B
TL1619	A	C	2B

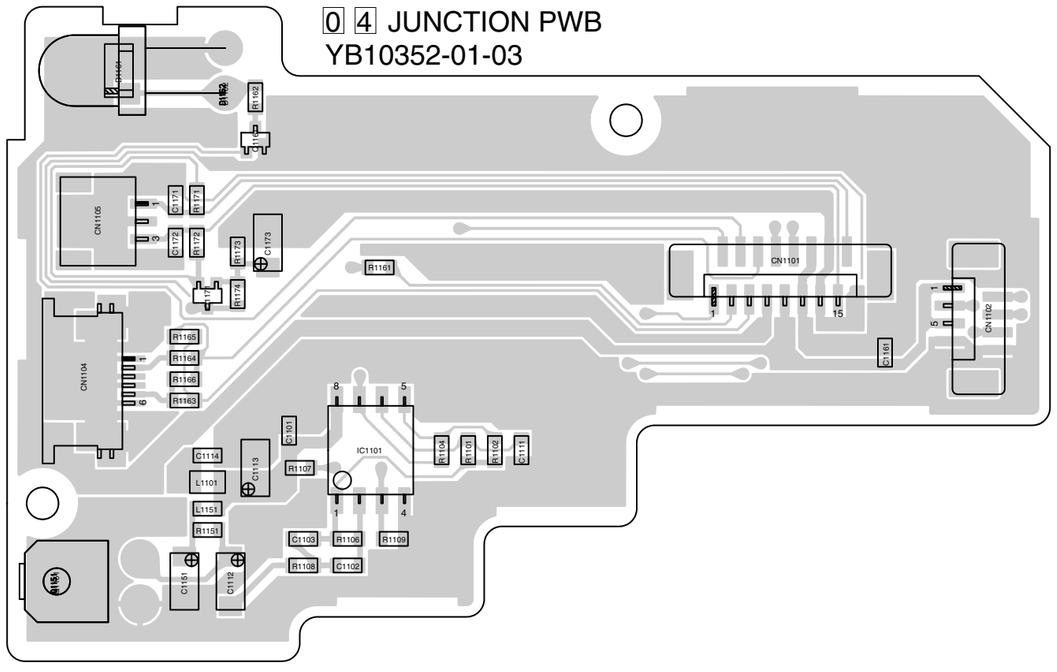
4.29 JUNCTION AND JACK CIRCUIT BOARDS

- JUNCTION-

FOIL SIDE(B)

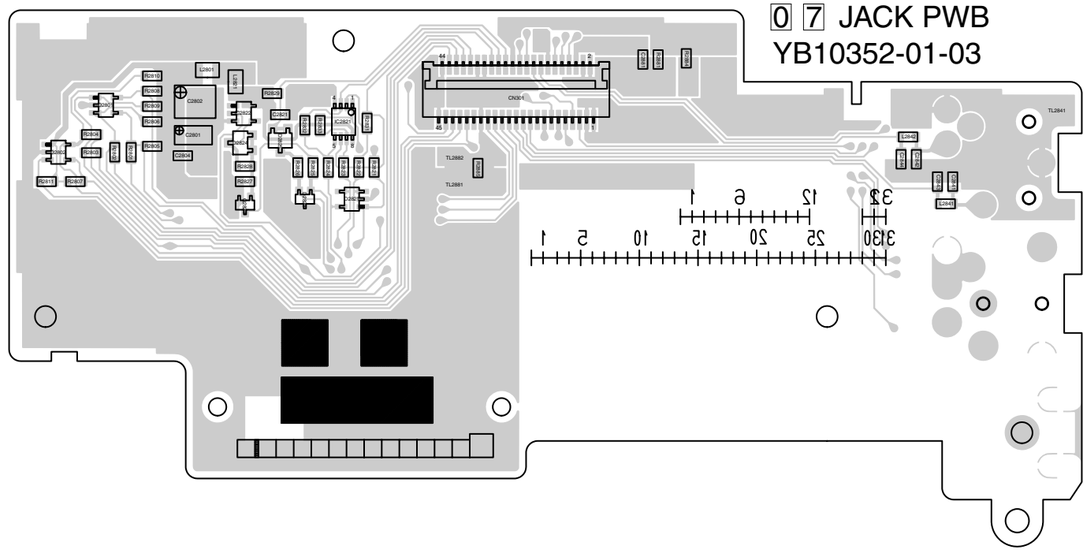


COMPONENT SIDE(A)

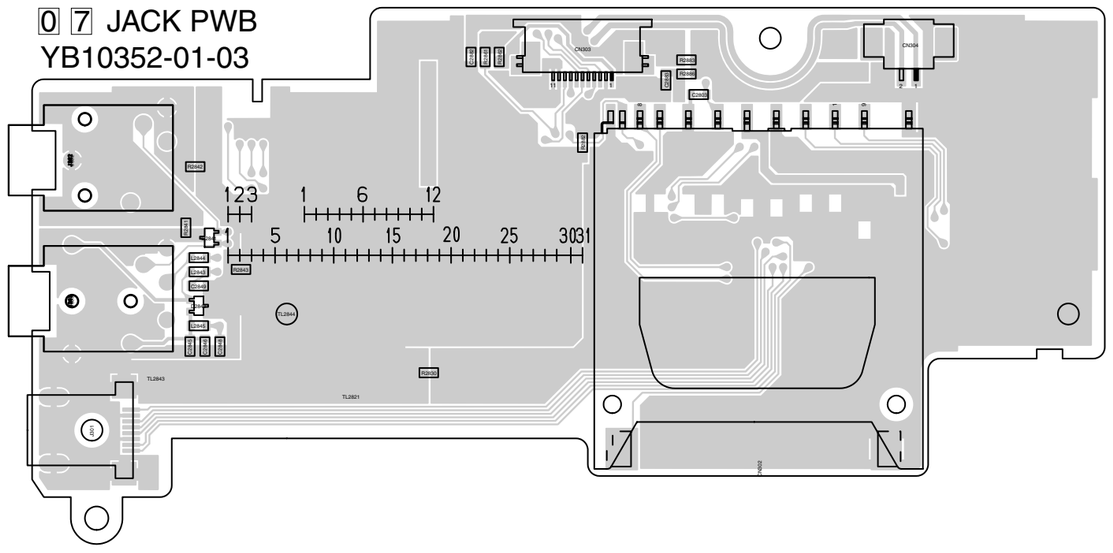


- JACK -

FOIL SIDE(B)

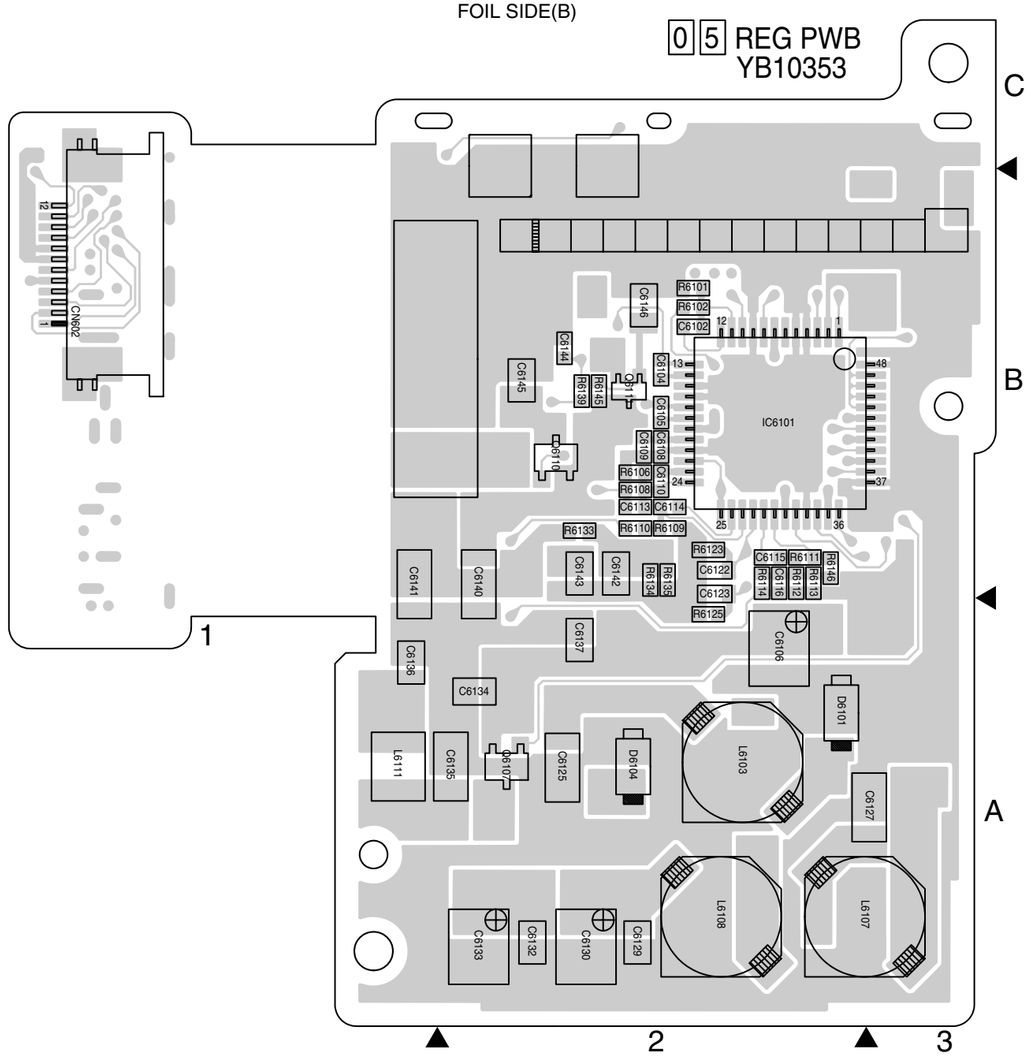


COMPONENT SIDE(A)

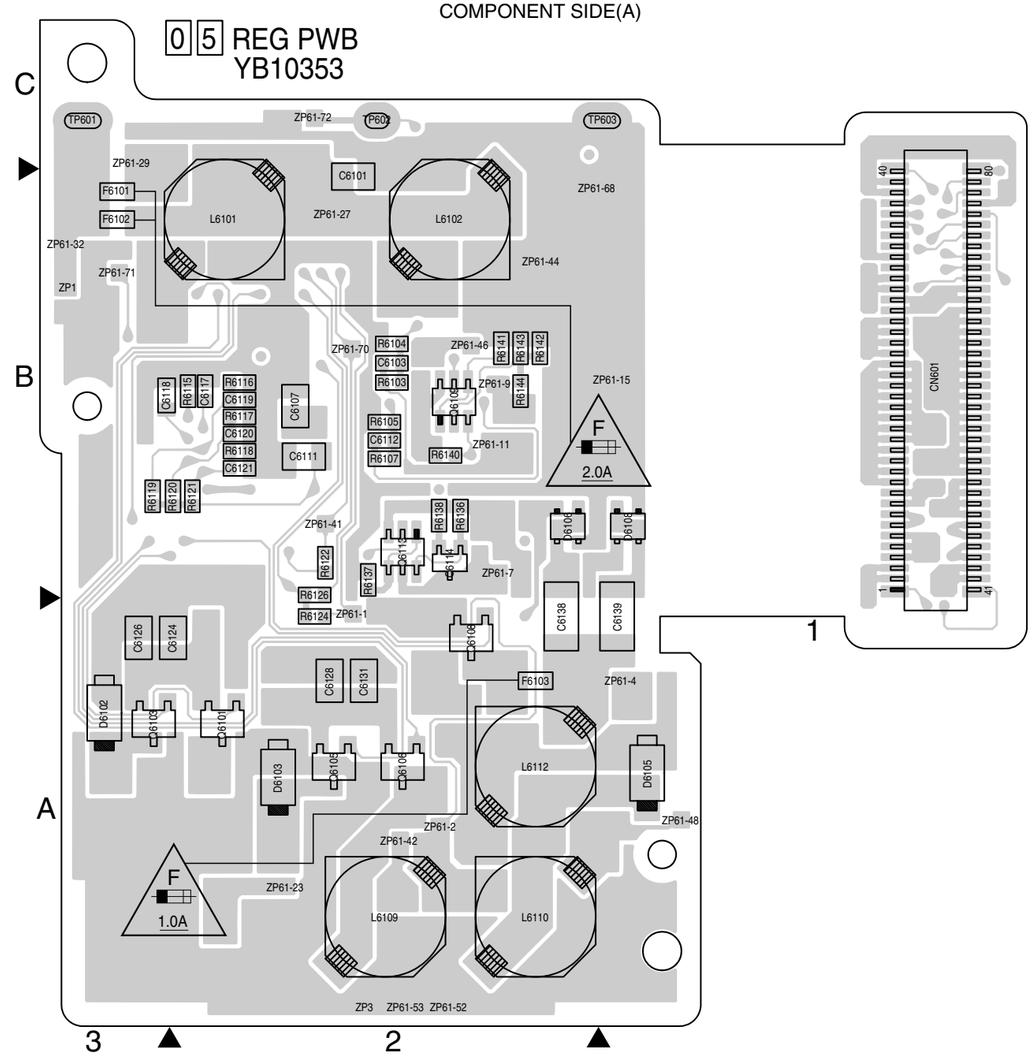


4.30 REG CIRCUIT BOARD [GR-DV3000EG]

FOIL SIDE(B)



COMPONENT SIDE(A)

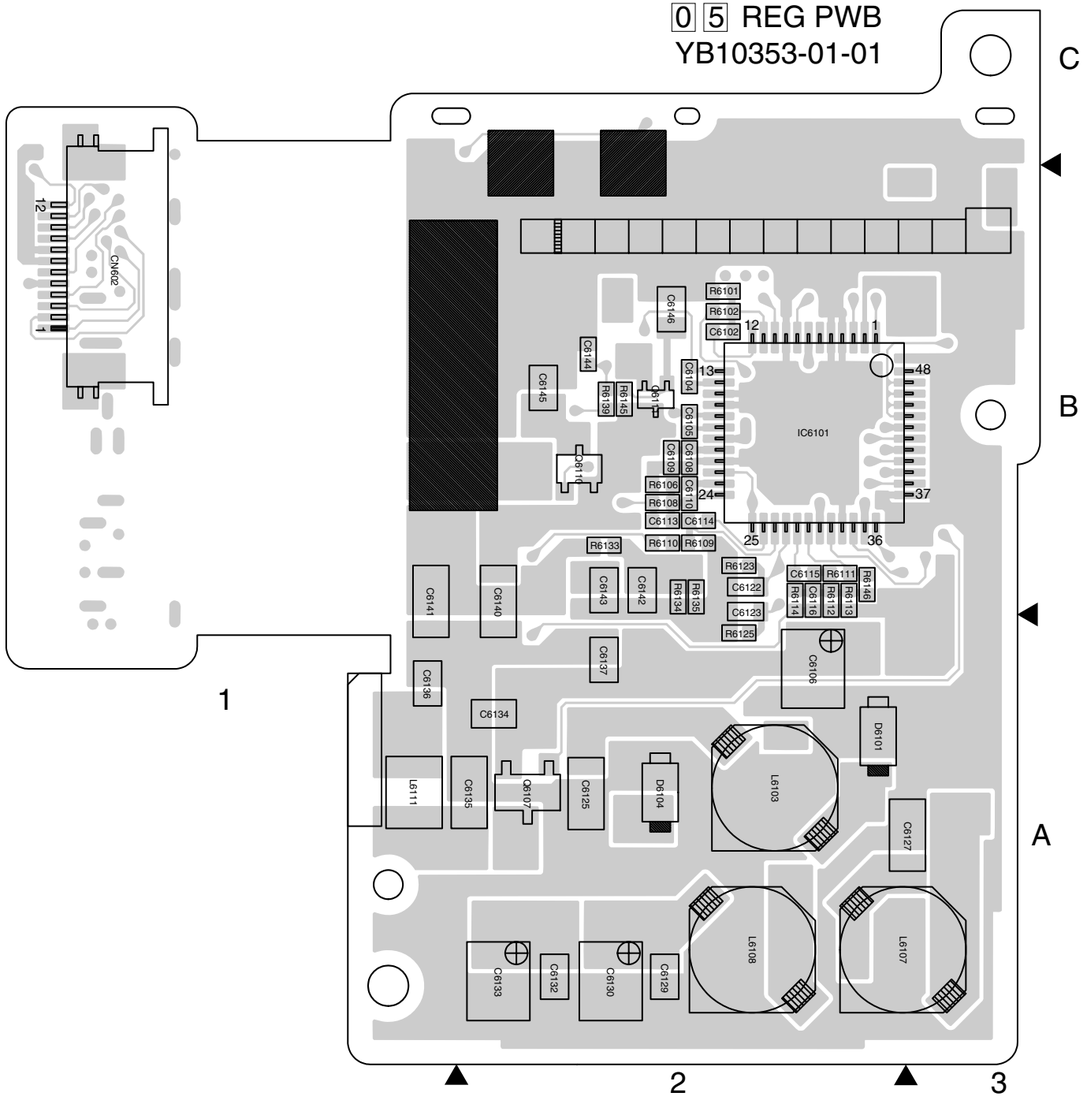


COMPONENT PARTS LOCATION GUIDE <REG/YB10353>

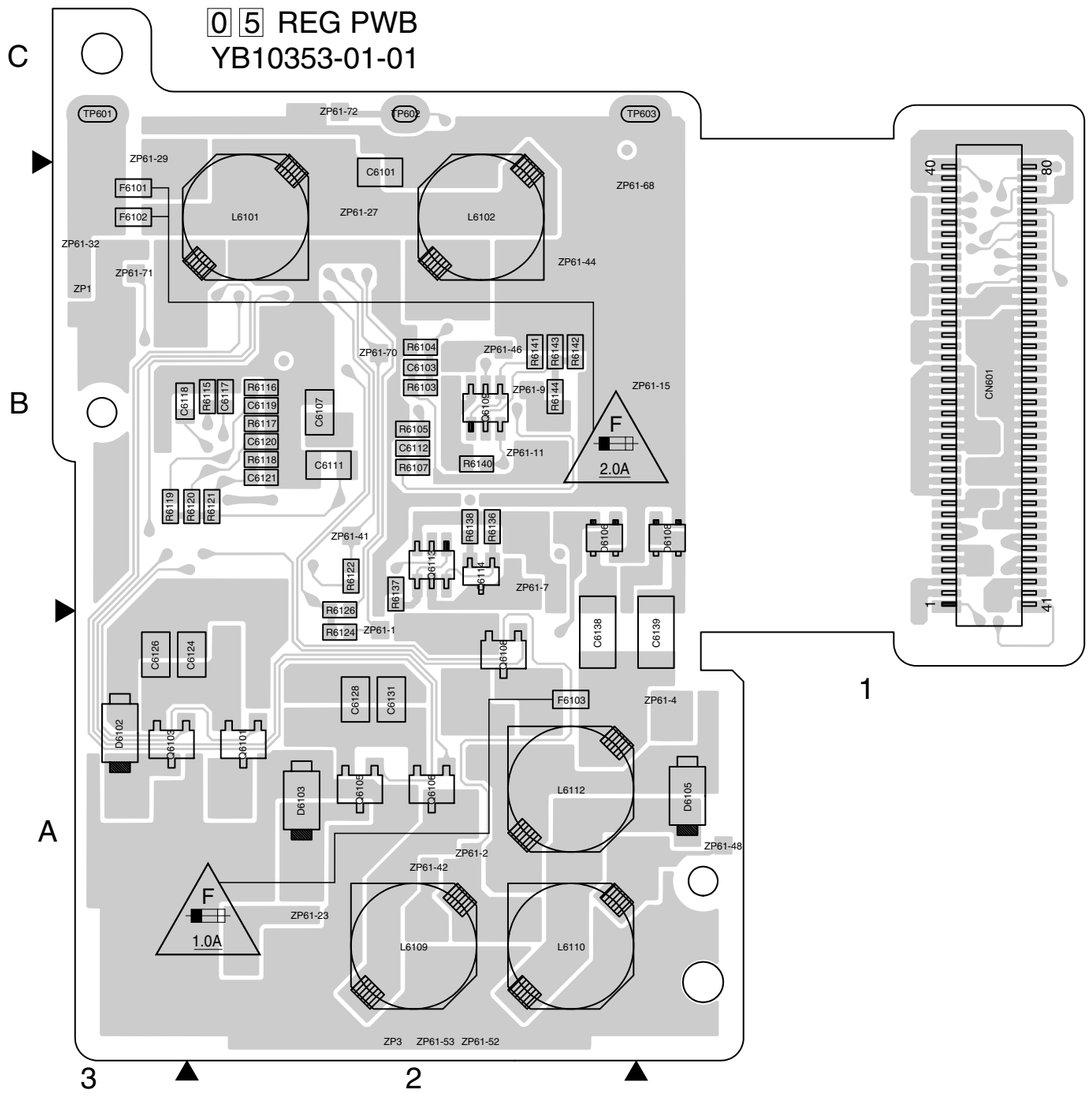
REF.NO.	LOCATION		
CAPACITOR			
C6101	A	C	2B
C6102	B	C	2B
C6103	A	C	2B
C6104	B	C	2B
C6105	B	C	2B
C6106	B	C	2A
C6107	A	C	2B
C6108	B	C	2B
C6109	B	C	2B
C6110	B	C	2B
C6111	A	C	2B
C6112	A	C	2B
C6113	B	C	2B
C6114	B	C	2B
C6115	B	C	2B
C6116	B	C	2B
C6117	A	C	2B
C6118	A	C	3B
C6119	A	C	2B
C6120	A	C	2B
C6121	A	C	2B
C6122	B	C	2B
C6123	B	C	2B
C6124	A	C	2A
C6125	B	C	2A
C6126	A	C	3A
C6127	B	C	3A
C6128	A	C	2A
C6129	B	C	2A
C6130	B	C	2A
C6131	A	C	2A
C6132	B	C	2A
C6133	B	C	2A
C6134	B	C	2A
C6135	B	C	2A
C6136	B	C	1A
C6137	B	C	2A
C6138	A	C	2A
C6139	A	C	1A
C6140	B	C	2B
C6141	B	C	1B
C6142	B	C	2B
C6143	B	C	2B
C6144	B	C	2B
C6145	B	C	2B
C6146	B	C	2B
CONNECTOR			
CN601	A	C	1B
CN602	B	C	1B

REF.NO.	LOCATION		
DIODE			
D6101	B	C	2A
D6102	A	C	3A
D6103	A	C	2A
D6104	B	C	2A
D6105	A	C	1A
D6106	A	C	2B
D6108	A	C	1B
FUSE			
F6101	A	C	3B
F6102	A	C	3B
F6103	A	C	2A
IC			
IC6101	B	C	2B
COIL			
L6101	A	C	2B
L6102	A	C	2B
L6103	B	C	2A
L6107	B	C	2A
L6108	B	C	2A
L6109	A	C	2A
L6110	A	C	2A
L6111	B	C	1A
L6112	A	C	2A
TRANSISTOR			
Q6101	A	C	2A
Q6103	A	C	3A
Q6105	A	C	2A
Q6106	A	C	2A
Q6107	B	C	2A
Q6108	A	C	2A
Q6109	A	C	2B
Q6110	B	C	2B
Q6111	B	C	2B
Q6113	A	C	2B
Q6114	A	C	2B
RESISTOR			
R6101	B	C	2B
R6102	B	C	2B
R6103	A	C	2B
R6104	A	C	2B
R6105	A	C	2B
R6106	B	C	2B
R6107	A	C	2B
R6108	B	C	2B
R6109	B	C	2B
R6110	B	C	2B
R6111	B	C	2B
R6112	B	C	2B
R6113	B	C	2B
R6114	B	C	2B
R6115	A	C	2B
R6116	A	C	2B
R6117	A	C	2B
R6118	A	C	2B
R6119	A	C	3B
R6120	A	C	2B
R6121	A	C	2B
R6122	A	C	2B
R6123	B	C	2B
R6124	A	C	2A
R6125	B	C	2A
R6126	A	C	2B
R6133	B	C	2B
R6134	B	C	2B
R6135	B	C	2B
R6136	A	C	2B
R6137	A	C	2B
R6138	A	C	2B
R6139	B	C	2B
R6140	A	C	2B
R6141	A	C	2B
R6142	A	C	2B
R6143	A	C	2B
R6144	A	C	2B
R6145	B	C	2B
R6146	B	C	2B
TESTPOINT			
TP601	A	C	3C
TP602	A	C	2C
TP603	A	C	1C
OTHER			
ZP1	A	C	3B
ZP3	A	C	2A
ZP61-1	A	C	2A
ZP61-2	A	C	2A
ZP61-4	A	C	1A
ZP61-7	A	C	2B
ZP61-9	A	C	2B
ZP61-11	A	C	2B
ZP61-15	A	C	1B
ZP61-23	A	C	2A
ZP61-27	A	C	2B
ZP61-29	A	C	3C
ZP61-32	A	C	3B
ZP61-41	A	C	2B
ZP61-42	A	C	2A
ZP61-44	A	C	2B
ZP61-46	A	C	2B
ZP61-48	A	C	1A
ZP61-52	A	C	2A
ZP61-53	A	C	2A
ZP61-68	A	C	1B
ZP61-70	A	C	2B
ZP61-71	A	C	3B
ZP61-72	A	C	2C

FOIL SIDE(B)



COMPONENT SIDE(A)



COMPONENT PARTS LOCATION GUIDE <REG/YB10353-01-01>

REF.NO.	LOCATION		
CAPACITOR			
C6101	A	C	2B
C6102	B	C	2B
C6103	A	C	2B
C6104	B	C	2B
C6105	B	C	2B
C6106	B	C	2A
C6107	A	C	2B
C6108	B	C	2B
C6109	B	C	2B
C6110	B	C	2B
C6111	A	C	2B
C6112	A	C	2B
C6113	B	C	2B
C6114	B	C	2B
C6115	B	C	2B
C6116	B	C	2B
C6117	A	C	2B
C6118	A	C	3B
C6119	A	C	2B
C6120	A	C	2B
C6121	A	C	2B
C6122	B	C	2B
C6123	B	C	2B
C6124	A	C	2A
C6125	B	C	2A
C6126	A	C	3A
C6127	B	C	3A
C6128	A	C	2A
C6129	B	C	2A
C6130	B	C	2A
C6131	A	C	2A
C6132	B	C	2A
C6133	B	C	2A
C6134	B	C	2A
C6135	B	C	2A
C6136	B	C	1A
C6137	B	C	2A
C6138	A	C	2A
C6139	A	C	1A
C6140	B	C	2B
C6141	B	C	1B
C6142	B	C	2B
C6143	B	C	2B
C6144	B	C	2B
C6145	B	C	2B
C6146	B	C	2B

REF.NO.	LOCATION		
CONNECTOR			
CN601	A	C	1B
CN602	B	C	1B
DIODE			
D6101	B	C	2A
D6102	A	C	3A
D6103	A	C	2A
D6104	B	C	2A
D6105	A	C	1A
D6106	A	C	2B
D6108	A	C	1B

REF.NO.	LOCATION		
FUSE			
F6101	A	C	3B
F6102	A	C	3B
F6103	A	C	2A
IC			
IC6101	B	C	2B
COIL			
L6101	A	C	2B
L6102	A	C	2B
L6103	B	C	2A
L6107	B	C	2A

REF.NO.	LOCATION		
L6108	B	C	2A
L6109	A	C	2A
L6110	A	C	2A
L6111	B	C	1A
L6112	A	C	2A
TRANSISTOR			
Q6101	A	C	2A
Q6103	A	C	3A
Q6105	A	C	2A
Q6106	A	C	2A
Q6107	B	C	2A

REF.NO.	LOCATION		
Q6108	A	C	2A
Q6109	A	C	2B
Q6110	B	C	2B
Q6111	B	C	2B
Q6113	A	C	2B
Q6114	A	C	2B
RESISTOR			
R6101	B	C	2B
R6102	B	C	2B
R6103	A	C	2B
R6104	A	C	2B

REF.NO.	LOCATION		
R6105	A	C	2B
R6106	B	C	2B
R6107	A	C	2B
R6108	B	C	2B
R6109	B	C	2B
R6110	B	C	2B
R6111	B	C	2B
R6112	B	C	2B
R6113	B	C	2B
R6114	B	C	2B
R6115	A	C	2B
R6116	A	C	2B

REF.NO.	LOCATION		
R6117	A	C	2B
R6118	A	C	2B
R6119	A	C	3B
R6120	A	C	2B
R6121	A	C	2B
R6122	A	C	2B
R6123	B	C	2B
R6124	A	C	2A
R6125	B	C	2A
R6126	A	C	2B
R6133	B	C	2B
R6134	B	C	2B

REF.NO.	LOCATION		
R6135	B	C	2B
R6136	A	C	2B
R6137	A	C	2B
R6138	A	C	2B
R6139	B	C	2B
R6140	A	C	2B
R6141	A	C	2B
R6142	A	C	2B
R6143	A	C	2B
R6144	A	C	2B
R6145	B	C	2B
R6146	B	C	2B

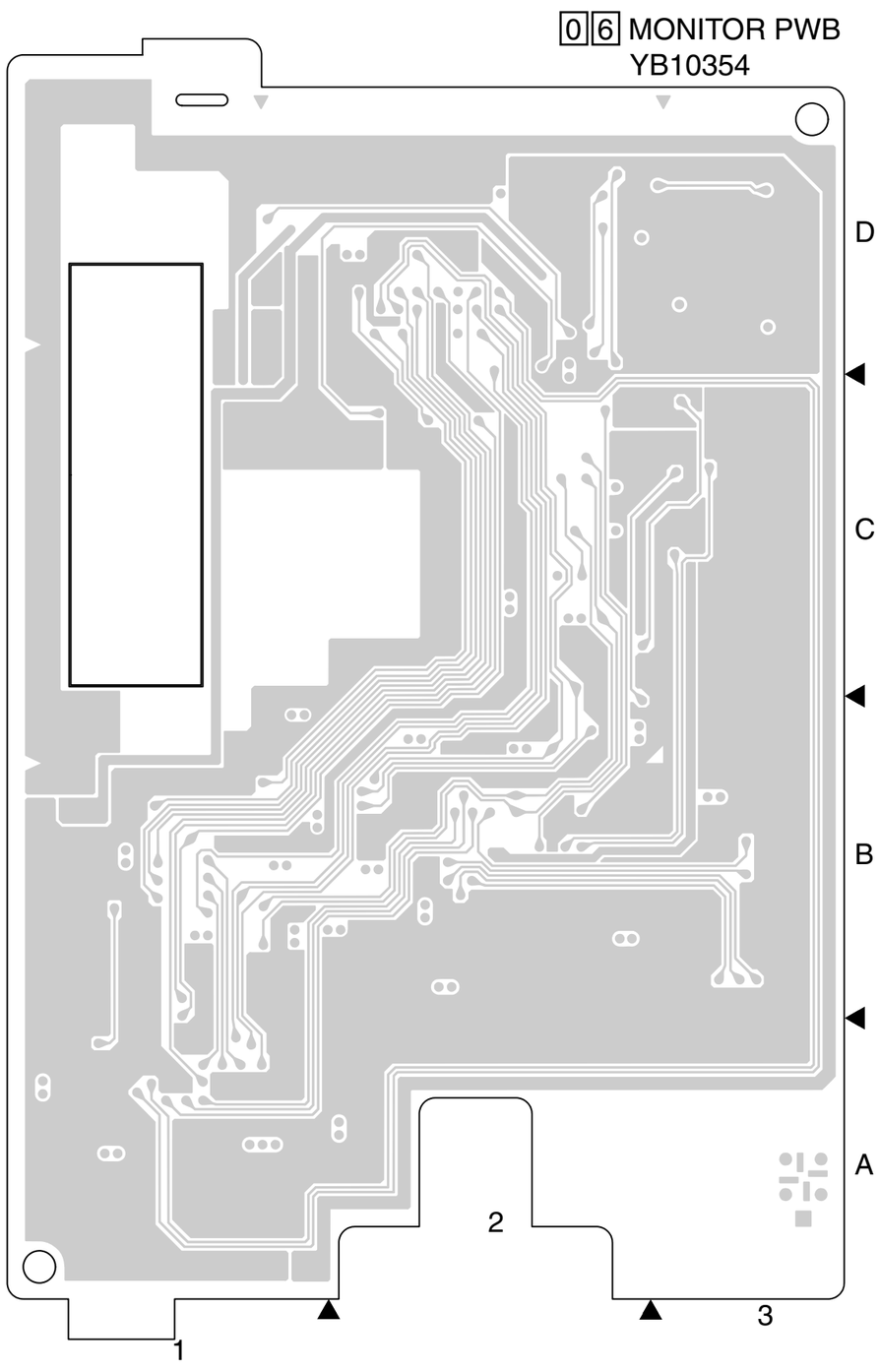
REF.NO.	LOCATION		
OTHER			
TP601	A	C	3C
TP602	A	C	2C
TP603	A	C	1C
ZP1	A	C	3B
ZP3	A	C	2A
ZP61-1	A	C	2A
ZP61-2	A	C	2A
ZP61-4	A	C	1A
ZP61-7	A	C	2B
ZP61-9	A	C	2B
ZP61-11	A	C	2B

REF.NO.	LOCATION		
ZP61-15	A	C	1B
ZP61-23	A	C	2A
ZP61-27	A	C	2B
ZP61-29	A	C	3C
ZP61-32	A	C	3B
ZP61-41	A	C	2B
ZP61-42	A	C	2A
ZP61-44	A	C	2B
ZP61-46	A	C	2B
ZP61-48	A	C	1A
ZP61-52	A	C	2A
ZP61-53	A	C	2A

REF.NO.	LOCATION		
ZP61-68	A	C	1B
ZP61-70	A	C	2B
ZP61-71	A	C	3B
ZP61-72	A	C	2C

4.32 MONITOR CIRCUIT BOARD

FOIL SIDE(B)



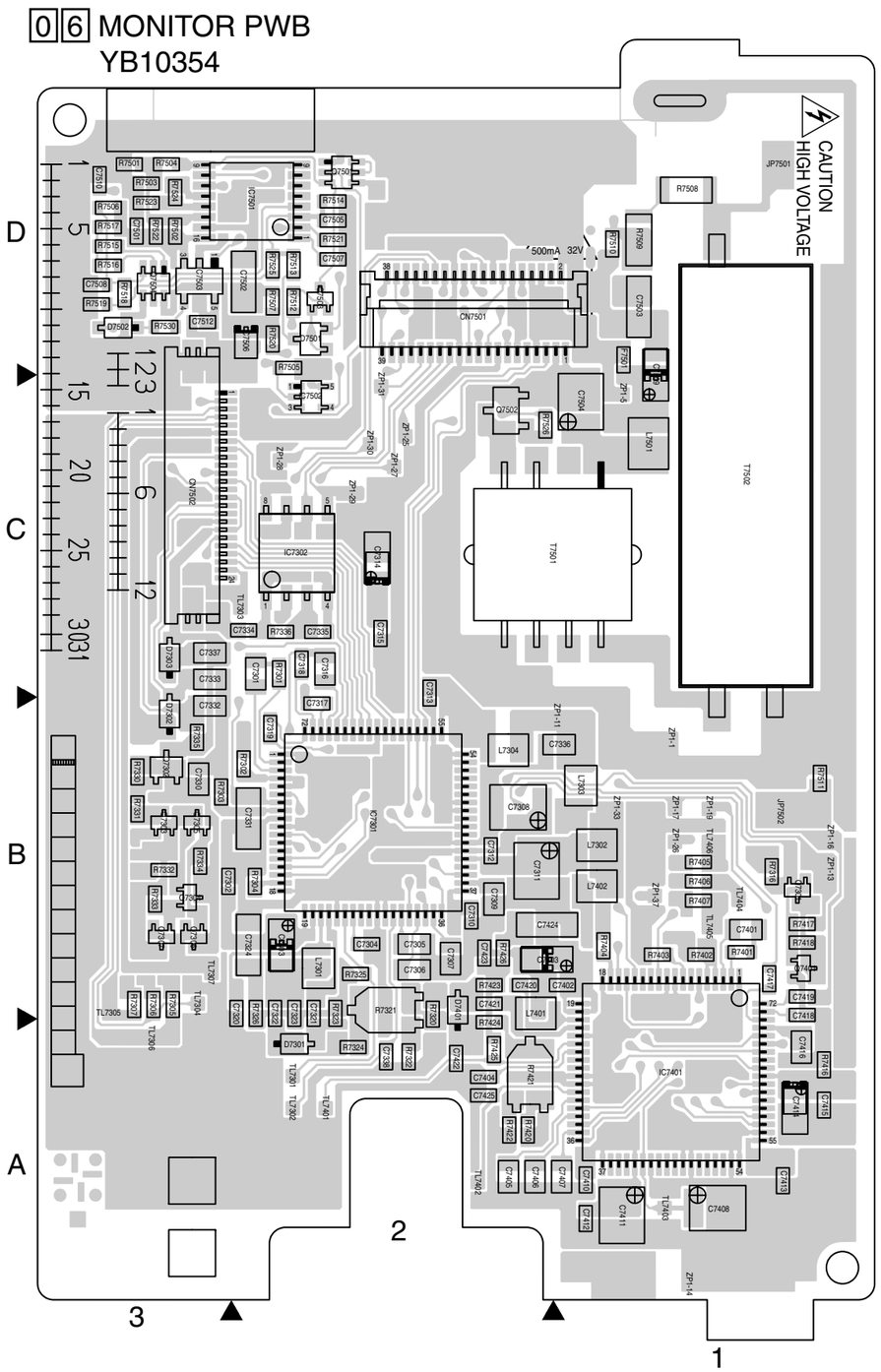
COMPONENT PARTS LOCATION GUIDE
<MONITOR/YB10354>

REF.NO.	LOCATION		
CAPACITOR			
C7301	A	C	2C
C7302	A	C	3B
C7303	A	C	2B
C7304	A	C	2B
C7305	A	C	2B
C7306	A	C	2B
C7307	A	C	2B
C7308	A	C	2B
C7309	A	C	2B
C7310	A	C	2B
C7311	A	C	2B
C7312	A	C	2B
C7313	A	C	2C
C7314	A	C	2C
C7315	A	C	2C
C7316	A	C	2C
C7317	A	C	2B
C7318	A	C	2C
C7319	A	C	2B
C7320	A	C	2B
C7321	A	C	2B
C7322	A	C	2B
C7323	A	C	2B
C7324	A	C	2B
C7330	A	C	3B
C7331	A	C	2B
C7332	A	C	3B
C7333	A	C	3C
C7334	A	C	2C
C7335	A	C	2C
C7336	A	C	1B
C7337	A	C	3C
C7338	A	C	2A
C7401	A	C	1B
C7402	A	C	1B
C7403	A	C	2B
C7404	A	C	2A
C7405	A	C	2A
C7406	A	C	2A
C7407	A	C	1A
C7408	A	C	1A
C7410	A	C	1A
C7411	A	C	1A
C7412	A	C	1A
C7413	A	C	1A
C7414	A	C	1A
C7415	A	C	1A
C7416	A	C	1A
C7417	A	C	1B
C7418	A	C	1B
C7419	A	C	1B
C7420	A	C	2B
C7421	A	C	2B
C7422	A	C	2A
C7423	A	C	2B
C7424	A	C	2B
C7425	A	C	2A
C7501	A	C	3D
C7502	A	C	2D
C7503	A	C	1D
C7504	A	C	1C
C7505	A	C	2D
C7506	A	C	2D
C7507	A	C	2D
C7508	A	C	3D
C7509	A	C	1C
C7510	A	C	3D
C7512	A	C	3D
CONNECTOR			
CN7501	A	C	1D
CN7502	A	C	3C
DIODE			
D7301	A	C	2A
D7302	A	C	3B
D7303	A	C	3C

REF.NO.	LOCATION		
D7401	A	C	2B
D7501	A	C	2D
D7502	A	C	3D
FUSE			
F7501	A	C	1D
IC			
IC7301	A	C	2B
IC7302	A	C	2C
IC7401	A	C	1A
IC7501	A	C	2D
IC7502	A	C	2C
IC7503	A	C	3D
COIL			
L7301	A	C	2B
L7302	A	C	1B
L7303	A	C	1B
L7304	A	C	2B
L7401	A	C	2B
L7402	A	C	1B
L7501	A	C	1C
TRANSISTOR			
Q7301	A	C	1B
Q7302	A	C	3B
Q7303	A	C	3B
Q7304	A	C	3B
Q7305	A	C	3B
Q7306	A	C	3B
Q7307	A	C	3B
Q7401	A	C	1B
Q7501	A	C	2D
Q7502	A	C	2C
Q7503	A	C	2D
Q7504	A	C	3D
RESISTOR			
R7301	A	C	2C
R7302	A	C	2B
R7303	A	C	3B
R7304	A	C	2B
R7305	A	C	3B
R7306	A	C	3B
R7307	A	C	3B
R7316	A	C	1B
R7320	A	C	2B
R7321	A	C	2B
R7322	A	C	2A
R7323	A	C	2B
R7324	A	C	2A
R7325	A	C	2B
R7326	A	C	2B
R7330	A	C	3B
R7331	A	C	3B
R7332	A	C	3B
R7333	A	C	3B
R7334	A	C	3B
R7335	A	C	3B
R7336	A	C	2C
R7401	A	C	1B
R7402	A	C	1B
R7403	A	C	1B
R7404	A	C	1B
R7405	A	C	1B
R7406	A	C	1B
R7407	A	C	1B
R7416	A	C	1A
R7417	A	C	1B
R7418	A	C	1B
R7420	A	C	2A
R7421	A	C	2A
R7422	A	C	2A
R7423	A	C	2B
R7424	A	C	2A
R7425	A	C	2A
R7426	A	C	2B
R7501	A	C	3D
R7502	A	C	3D

REF.NO.	LOCATION		
R7503	A	C	3D
R7504	A	C	3D
R7505	A	C	2D
R7506	A	C	3D
R7507	A	C	2D
R7508	A	C	1D
R7509	A	C	1D
R7510	A	C	1D
R7511	A	C	1B
R7512	A	C	2D
R7513	A	C	2D
R7514	A	C	2D
R7515	A	C	3D
R7516	A	C	3D
R7517	A	C	3D
R7518	A	C	3D
R7519	A	C	3D
R7520	A	C	2D
R7521	A	C	2D
R7522	A	C	3D
R7523	A	C	3D
R7524	A	C	3D
R7525	A	C	2D
R7526	A	C	2C
R7530	A	C	3D
OTHER			
JP7501	A	C	1D
JP7502	A	C	1B
PC0230	A	C	3A
T7501	A	C	2C
T7502	A	C	1C
TL7301	A	C	2A
TL7302	A	C	2A
TL7303	A	C	2C
TL7304	A	C	3B
TL7305	A	C	3B
TL7306	A	C	3A
TL7307	A	C	3B
TL7401	A	C	2A
TL7402	A	C	2A
TL7403	A	C	1A
TL7404	A	C	1B
TL7405	A	C	1B
TL7406	A	C	1B
TM1	A	C	3A
ZP1-1	A	C	1B
ZP1-5	A	C	1C
ZP1-11	A	C	1B
ZP1-13	A	C	1B
ZP1-14	A	C	1A
ZP1-16	A	C	1B
ZP1-17	A	C	1B
ZP1-19	A	C	1B
ZP1-25	A	C	2C
ZP1-26	A	C	1B
ZP1-27	A	C	2C
ZP1-28	A	C	2C
ZP1-29	A	C	2C
ZP1-30	A	C	2C
ZP1-31	A	C	2C
ZP1-33	A	C	1B
ZP1-37	A	C	1B

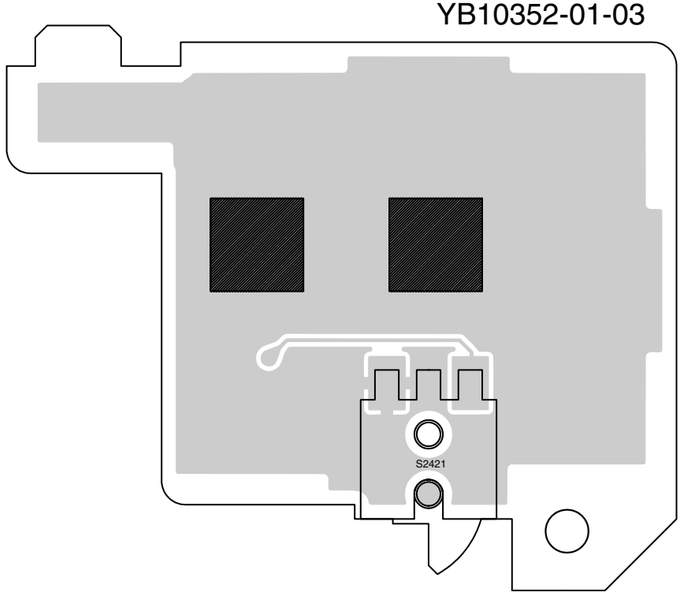
COMPONENT SIDE(A)



- EJECT -

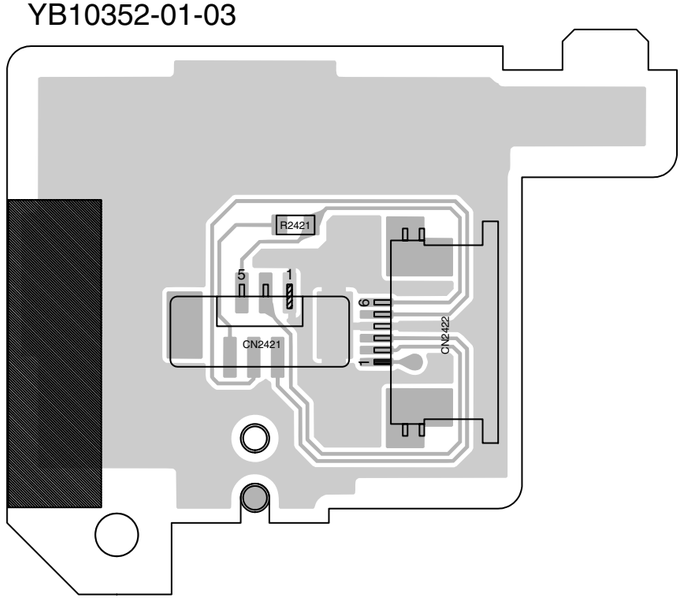
FOIL SIDE(B)

08 EJECT PWB
YB10352-01-03



COMPONENT SIDE(A)

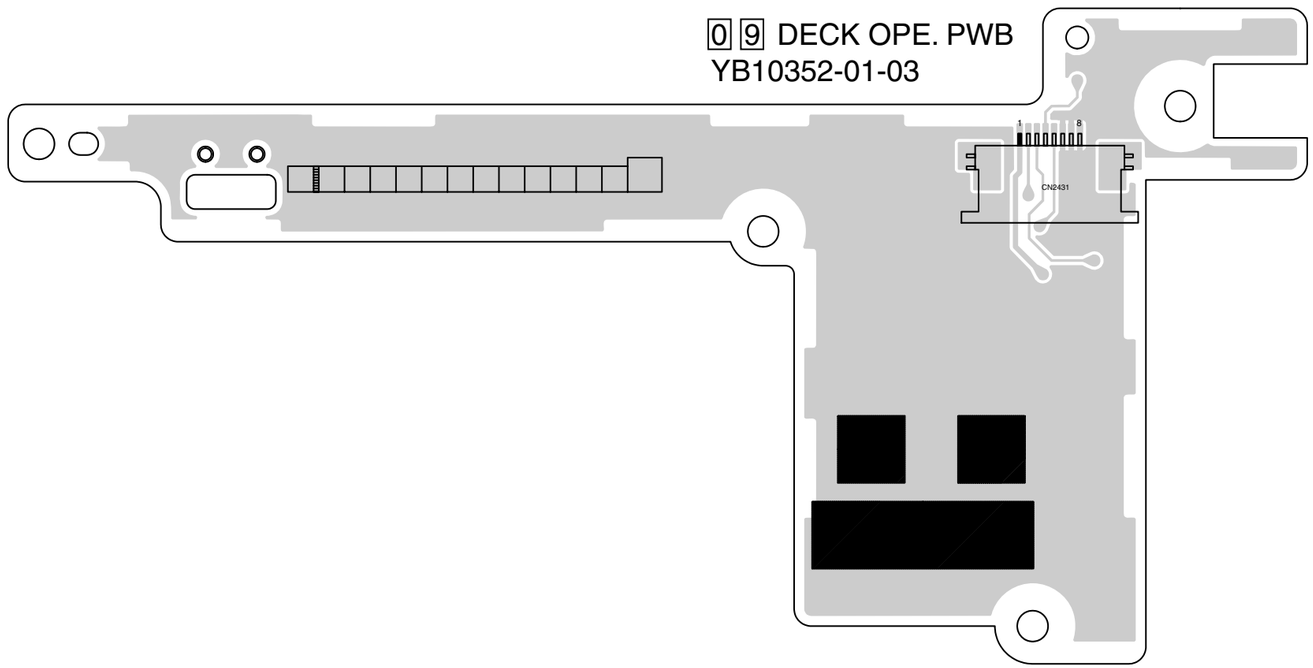
08 EJECT PWB
YB10352-01-03



- DECK OPE. -

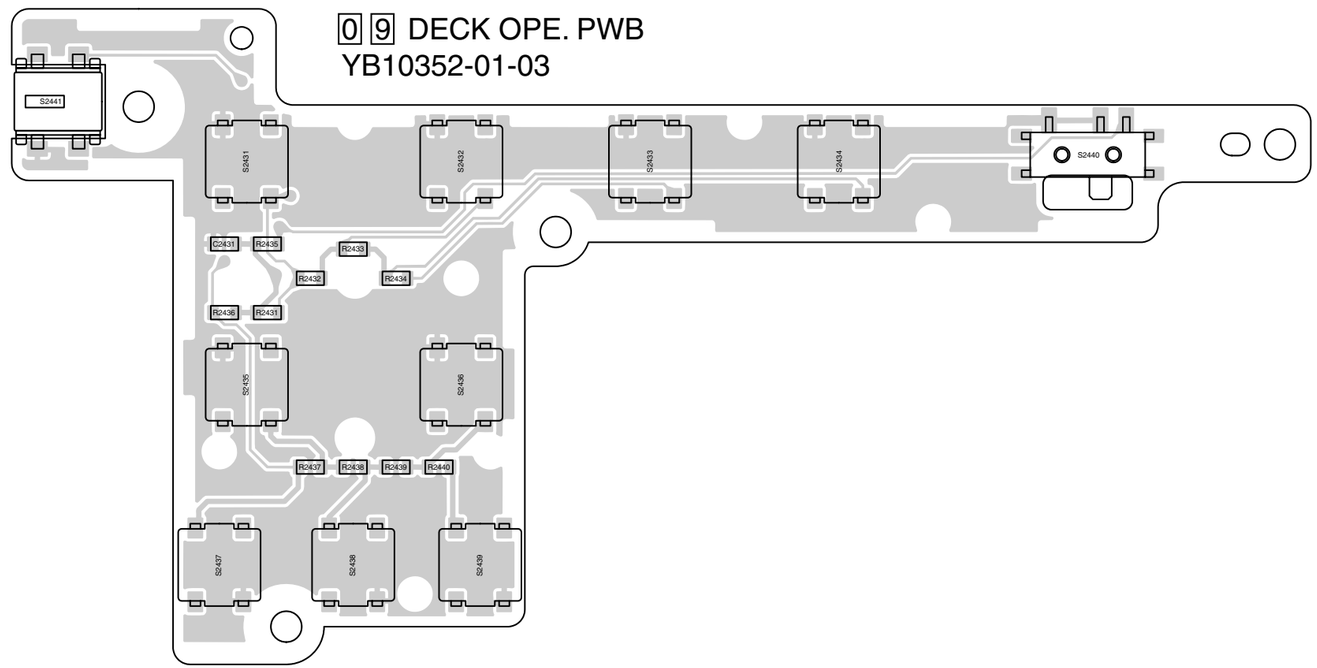
FOIL SIDE(B)

09 DECK OPE. PWB
YB10352-01-03



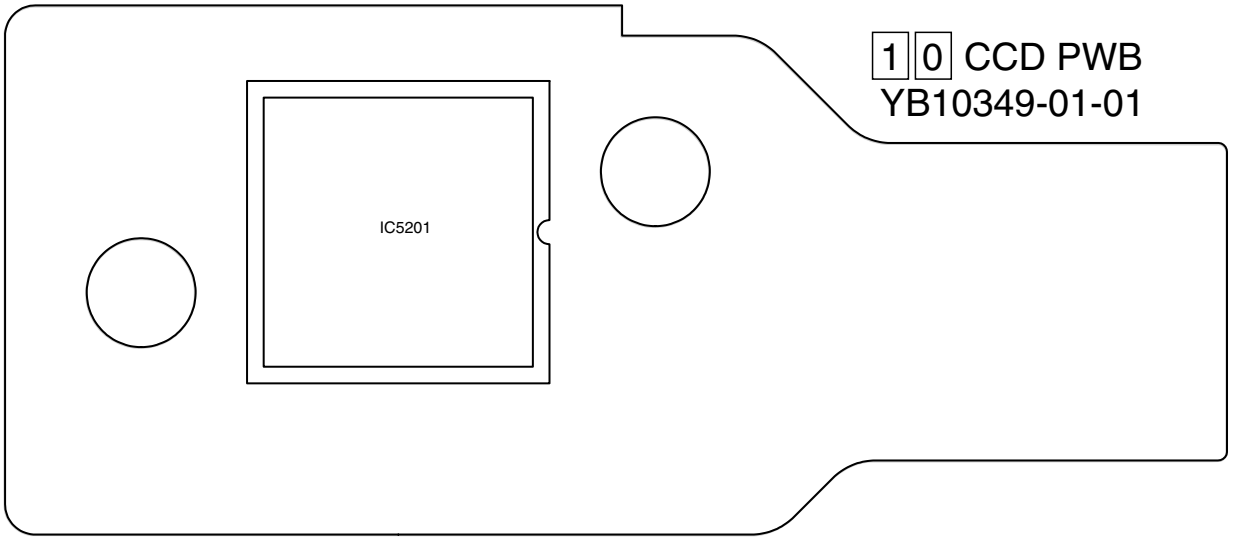
COMPONENT SIDE(A)

09 DECK OPE. PWB
YB10352-01-03

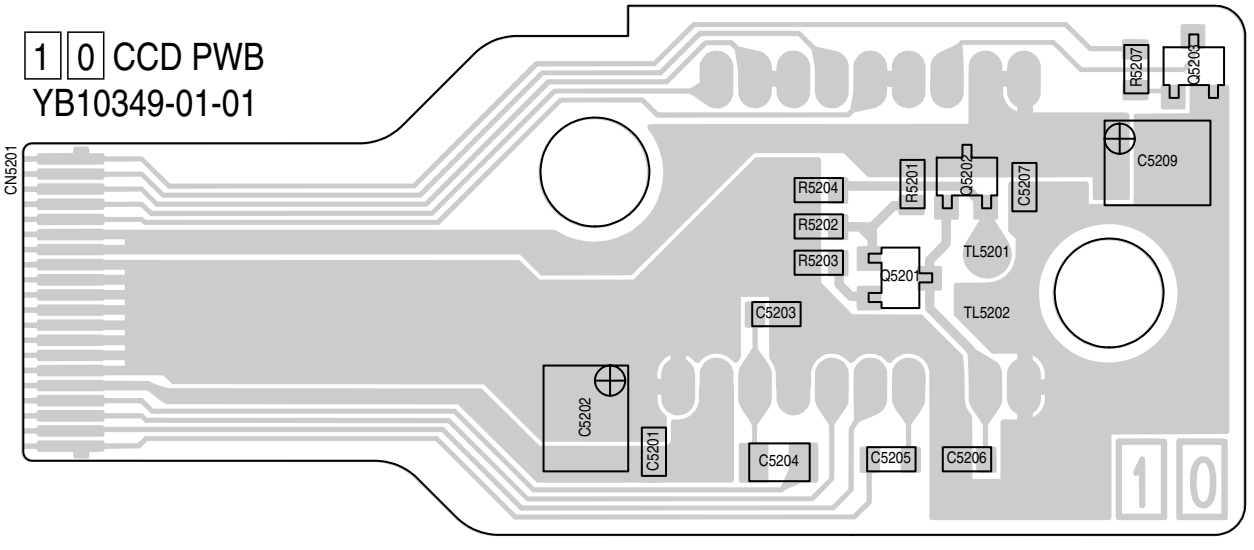


4.34 CCD CIRCUIT BOARD

FOIL SIDE(B)



COMPONENT SIDE(A)

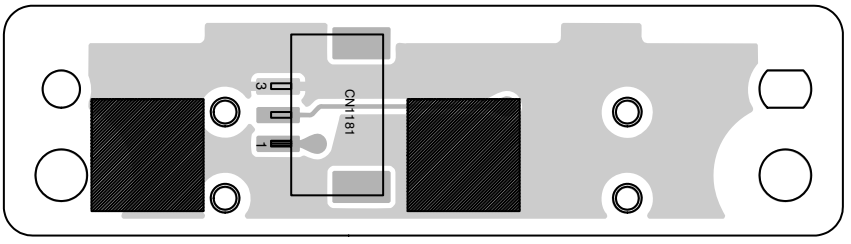


4.35 FE SW AND FRONT CIRCUIT BOARDS

- FE SW -

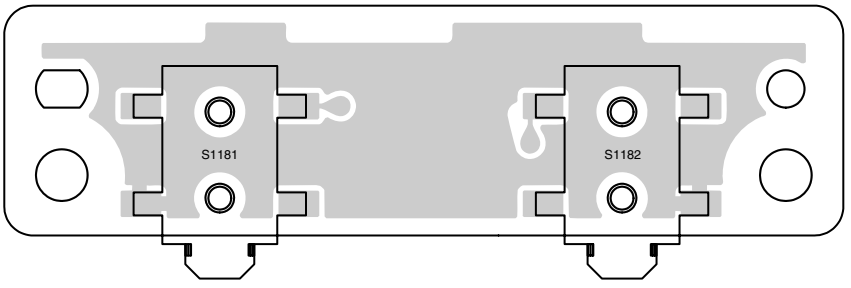
FOIL SIDE(B)

11 FE SW PWB
YB10352-01-03



COMPONENT SIDE(A)

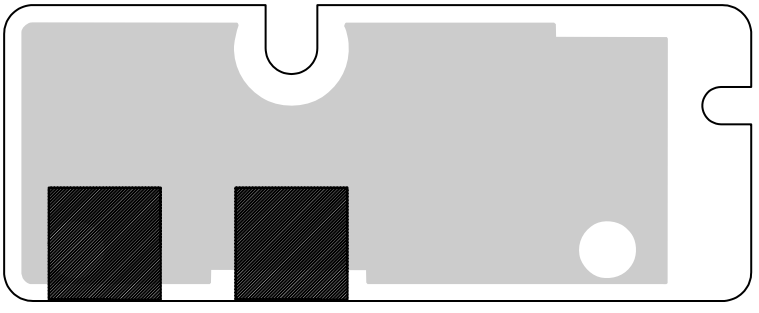
11 FE SW PWB
YB10352-01-03



- FRONT -

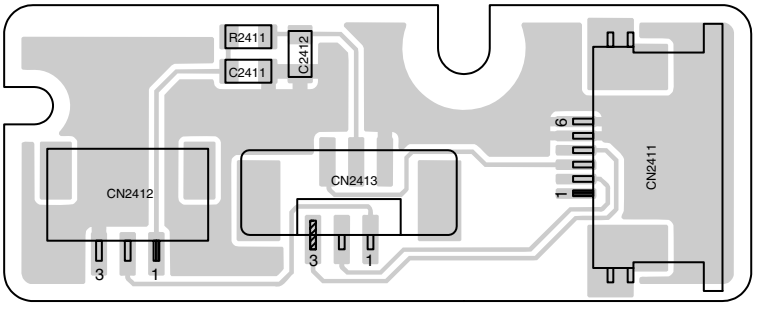
FOIL SIDE(B)

12 FRONT PWB
YB10352-01-03



COMPONENT SIDE(A)

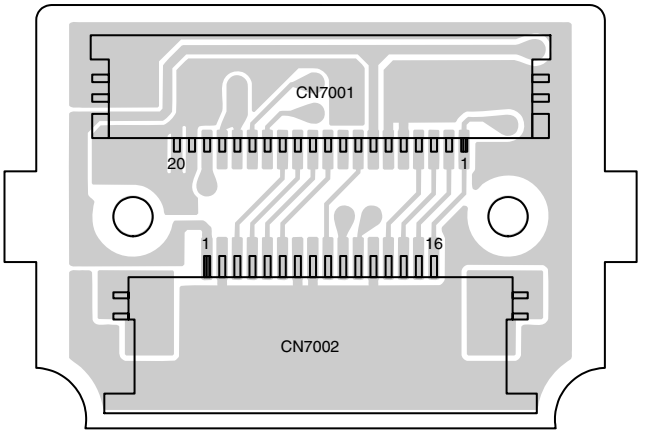
12 FRONT PWB
YB10352-01-03



4.36 VF BL CIRCUIT BOARD

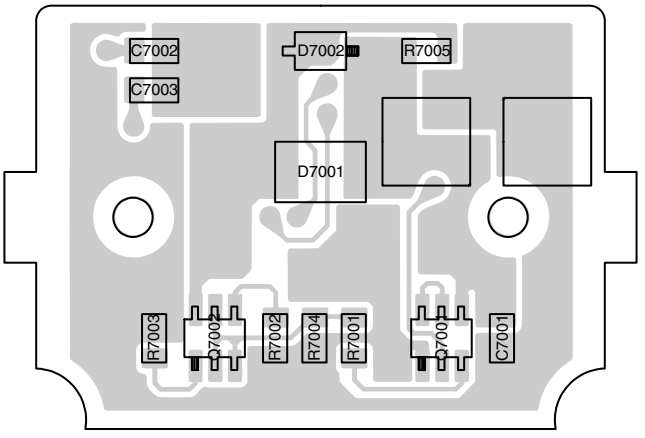
FOIL SIDE(B)

13 VF BL PWB
YB10355



COMPONENT SIDE(A)

13 VF BL PWB
YB10355



4.37 VOLTAGE CHARTS

<SYSCON CPU>

MODE PIN NO.	REC	PLAY
IC1001	-	-
IC1002	-	-
IC1003		
1	3.0	3.0
2	0.7	0.7
3	3.0	3.1
4	0	0
5	0.7	0.7
6	3.0	3.0
7	3.1	3.1
8	3.1	3.1
IC1006		
1	2.6	2.6
2	0.7	0.6
3	0	0
4	3.0	3.0
5	3.1	3.1
6	3.1	3.1
7	0	0
8	1.5	1.5
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	0	0
16	0	0
17	0	0
18	0	0
19	3.0	3.0
20	2.9	2.8
IC1007		
1	3.0	3.0
2	3.0	3.0
3	0	0
4	3.0	3.0
5	3.0	3.0
Q1001		
E	0	0
C	0	0
B	0	0
Q1002		
E	0	0
C	3.1	3.1
B	0.5	0.5
Q1003		
E	0	0
C	0.4	0
B	0	0
Q1004		
E	0	0
C	0.4	0.4
B	0	0

<MSD CPU>

MODE PIN NO.	REC	PLAY
IC1401	-	-
Q1401	-	-
Q1402	-	-
Q1403	-	-

<MAIN IF>

MODE PIN NO.	REC	PLAY
IC6001		
1	6.6	6.6
2	6.4	6.4
3	0	0
4	0	0
IC6003		
1	6.6	6.6
2	0	0
3	6.6	6.6
4	0	0
5	3.0	3.0
IC6004		
1	3.0	3.0
2	3.0	3.0
3	0	0
4	0	0
Q2001	-	-
Q2002	-	-
Q2003	-	-
Q2004	-	-
Q2901		
E	6.7	6.7
C	0	0
B	6.7	6.7
Q2902		
E	0	0
C	0	6.7
B	0	0
Q6001		
D	6.6	6.7
S	6.7	6.7
G	0	0
Q6002		
D	0	0
S	0	0
G	6.6	6.6
Q6003		
D	0	0
S	3.7	3.7
G	3.0	3.0
Q6004		
D	6.4	6.4
S	0	0
G	0	0
Q6005		
E	0	0
C	0	0
B	3.0	3.0

<AUDIO AD/DA>

MODE PIN NO.	REC	PLAY
IC2101		
1	0	1.4
2	1.3	0
3	0	0
4	0	0
5	3.1	3.1
6	3.0	3.0
7	0	0
8	1.4	0
9	1.4	1.4
10	1.5	1.5
11	1.4	1.4
12	1.5	1.5
13	3.0	0
14	0	3.0
15	1.2	1.4
16	1.2	1.4
IC2151		
1	0	0
2	1.0	1.1
3	0.8	1.1
4	0	0
5	3.1	3.1
6	3.1	3.1
7	0	0
8	0	0
9	0	0
10	1.5	1.5
11	1.4	1.4
12	1.5	1.5
13	0	0
14	0	0
15	0	0
16	0	0

<MAIN AUDIO>

MODE PIN NO.	REC	PLAY
IC2201		
1	0	0
2	1.3	0.4
3	1.4	0.5
4	1.3	1.5
5	1.4	1.
6	1.4	1.5
7	0	0
8	2.0	2.2
9	2.0	2.2
10	0	0
11	1.4	1.5
12	1.4	1.4
13	1.4	1.5
14	1.3	0.5
15	1.3	0
16	1.4	0.5
17	1.4	1.5
18	1.4	1.5
19	1.4	1.1
20	1.4	0.8
21	1.4	1.5
22	2.5	2.8
23	1.4	1.6
24	1.4	1.5
25	0	2.1
26	1.0	0.4
27	2.2	2.2
28	2.5	1.5
29	2.3	2.3
30	2.2	2.2
31	2.2	2.4
32	2.2	2.2
33	4.8	4.7
34	4.7	4.6
35	0	0
36	2.4	2.3
37	4.7	4.7
38	2.2	2.1
39	0	1.8
40	0	0
41	3.0	3.0
42	0	2.3
43	2.2	2.1
44	0	3.0
45	1.4	1.5
46	0	0
47	2.3	2.4
48	2.5	1.6
49	1.4	1.5
50	1.4	1.5
51	1.4	1.4
52	1.4	0
53	1.6	0
54	3.0	3.0
55	0	0
56	2.5	2.1
57	1.4	1.5
58	1.4	1.5
59	0	2.8
60	1.4	1.5
61	0	1.1
62	1.4	1.0
63	1.4	1.5
64	1.4	1.4
IC2301	-	-
1	2.3	2.3
2	2.3	2.3
3	0	0
4	0	0
5	2.3	2.3
6	2.3	2.3
7	2.3	2.3
8	4.6	4.6
Q2302		
E	1.3	1.3
C	4.6	4.6
B	1.9	1.9
Q2303		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
Q2401		
E	2.5	2.8
C	4.8	4.8
B	2.2	3.4
Q2402	-	-
Q2403	-	-
Q2601	-	-
Q2602	-	-
Q2603	-	-
Q2604	-	-
Q2701		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
Q2702		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
Q2703		
E	0	0
C	2.5	2.8
B	0	0

<DVMAIN>

MODE PIN NO.	REC	PLAY
IC3001	-	-
IC3002	-	-
IC3004		
1	0	1.5
2	0	1.5
3	0	0
4	1.4	0
5	0	3.1
IC3007		
1	0	0.4
2	0	0.4
3	0	0
4	0	2.1
5	1.0	1.2
6	0.8	1.4
7	0	3.1
8	0.5	0

<VIDEO I/O>

MODE PIN NO.	REC	PLAY
IC3701		
1	0	0
2	1.9	1.9
3	0	0
4	0	0
5	0	0
6	0	0
7	0	1.9
8	0	0
9	0	2.3
10	0	0
11	0	1.4
12	1.4	1.4
13	4.7	4.7

MODE PIN NO.	REC	PLAY
14	1.1	1.0
15	1.1	1.1
16	4.7	4.7
IC3731		
1	3.0	3.0
2	1.2	1.2
3	4.8	4.7
4	1.2	1.3
5	0	0
6	1.6	1.4
IC3801	-	-
Q3701		
1(E)	1.7	1.8
2(B)	1.2	1.2
3(C)	0	0
4(E)	0	1.4
5(B)	1.8	0.8
6(C)	0	0
Q3702		
1(E)	0	0
2(B)	0	0
3(C)	0	0
4(E)	4.7	4.7
5(B)	0	0
6(C)	0	0
Q3703		
E	1.2	1.2
C	0	0
B	0.6	0.6
Q3705		
1(E)	0.9	0.9
2(B)	0	0
3(C)	0	0
4(E)	1.0	1.0
5(B)	0	0
6(C)	0	0
Q3731		
E	0	0
C	4.7	4.8
B	0	0
Q3732		
E	0	0
C	0	0
B	3.0	3.0
Q3733		
1(E)	0	0
2(B)	0.4	0.4
3(C)	0	0
4(E)	4.7	4.7
5(B)	4.7	4.7
6(C)	4.7	4.7
Q3734		
E	0	0
C	4.7	4.7
B	0	0
Q3735		
1(E)	0	0
2(B)	0	0
3(C)	0	0
4(E)	0	1.5
5(B)	0.9	0.9
6(C)	4.8	4.7

<CDS/AD>

MODE PIN NO.	REC	PLAY
IC4201		
1	0	0
2	0	0
3	1.4	0
4	1.2	0
5	1.2	0
6	1.1	0
7	1.2	3.1
8	0	0
9	0	0
10	0	0
11	1.2	0
12	0	0
13	3.0	3.1
14	0	0
15	0	0
16	0	0
17	3.1	3.1
18	3.0	3.1
19	2.6	0
20	3.0	0
21	2.1	0
22	2.1	0
23	0	0
24	3.0	3.1
25	0	0
26	0	0
27	3.0	0
28	2.0	0
29	1.7	0
30	1.8	-
31	2.0	0
32	1.2	0
33	3.1	3.1
34	0	0
35	0	0
36	0	0
37	1.4	0
38	0	0
39	0.9	0
40	3.0	3.1
41	0	0
42	0	0
43	3.1	3.1
44	3.1	3.1
45	0	0
46	3.0	3.0
47	0	1.8
48	3.0	3.0
IC4202		
1	0	0
2	4.7	4.8
3	3.1	3.1

<DSP>

MODE PIN NO.	REC	PLAY
IC4301	-	-
IC4302		
1	1.8	1.8
2	0	0
3	1.8	1.8

MODE PIN NO.	REC	PLAY
4	1.7	1.8
5	1.5	1.5
IC4303	-	-

<OP DRIVE>

MODE PIN NO.	REC	PLAY
IC4802	-	-
IC4803	-	-
IC4804		
1	1.2	3.4
2	1.6	2.8
3	1.7	3.1
4	0	0
5	-	-
6	-	-
7	-	-
8	-	-
IC4851		
1	0	0
2	0.4	0.4
3	0	0.4
4	0	0
5	0	0.5
6	0	0
7	3.1	0
8	3.1	3.1
9	4.8	4.7
10	0.5	0
11	0	0
12	0.5	0
13	4.8	4.8
14	0.5	0
15	0	0
16	0.5	0
17	0	0.7
18	0	0
19	0	0
20	0	0
21	0	0
22	0	0
23	4.8	4.8
24	0.5	0
25	0	0
26	0.5	0
27	4.8	4.8
28	0.5	0
29	0	0
30	0.4	0
31	3.1	3.1
32	0	0
33	0	0
34	0	1.8
35	3.0	3.0
36	1.5	1.5
37	1.5	1.5
38	3.0	3.0
Q4801	-	-
Q4802	-	-
Q4803		
E	0	0
C	4.7	4.8

MODE PIN NO.	REC	PLAY
B	0	0
Q4804		
E	4.7	4.7
C	1.3	0
B	4.7	4.7
Q4805		
E	4.7	4.8
C	1.3	3.0
B	4.7	4.7
Q4806	-	-
Q4851		
E	0	0
C	3.5	0
B	0	0.7

<TG/VDR>

MODE PIN NO.	REC	PLAY
IC5001		
1	0	0
2	0	0
3	3.0	3.0
4	3.1	3.1
5	0	0
6	1.5	0
7	1.7	1.5
8	3.3	3.3
9	0.6	0
10	0	0
11	0	0
12	0	0
13	1.5	0
14	3.3	3.3
15	3.0	0
16	3.1	3.1
17	0	0
18	2.2	0
19	0	0
20	3.0	0
21	0	0
22	0	0
23	0	0
24	3.1	3.1
25	1.4	1.4
26	0	0
27	0	0
28	3.0	0
29	2.8	0
30	0	0
31	0	0
32	3.0	3.0
33	0	1.8
34	3.0	3.0
35	0	0
36	0	0
37	3.0	3.1
38	0	0
39	0	0
40	-0.4	0
41	-7.1	0
42	-7.0	0
43	14.9	15.0

MODE PIN NO.	REC	PLAY
44	0	0
45	-7.5	-7.7
46	-7.5	-7.7
47	3.1	3.1
48	3.1	3.1
IC5002		
1	1.6	1.5
2	1.5	1.4
3	0	0
4	0	3.1
5	0	0
6	1.4	1.4
7	3.1	3.1
8	1.2	1.1
IC5003		
1	4.8	4.8
2	0	0
3	1.2	1.3
4	3.3	3.3
5	4.8	4.7

<DSC>

MODE PIN NO.	REC	PLAY
IC8001	-	-
IC8002	-	-
IC8003		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	3.0	3.0
12	3.0	3.0
13	0	0
14	0	0
15	0	0
16	0	0
17	0	0
18	0	0
19	0	0
20	0	0
21	0	0
22	0	0
23	0	0
24	3.0	3.0
25	0	0
26	3.0	3.1
27	0	0
28	3.0	3.1
29	0	0.4
30	2.2	2.2
31	0	0.4
32	2.2	2.2
33	0	0.4
34	2.2	2.2
35	0	0.4

MODE PIN NO.	REC	PLAY
36	2.2	2.2
37	3.0	3.1
38	0	0.4
39	2.2	2.2
40	0	0.4
41	2.2	2.2
42	0	0.4
43	2.2	2.2
44	0	0.4
45	2.2	2.2
46	0	0
47	3.0	3.0
48	0	0
IC8005	-	-
Q8001	-	-

<USB>

MODE PIN NO.	REC	PLAY
IC8301		
1	4.7	4.7
2	0	0
3	3.1	3.1
4	0	0
5	0	0
6	0	0
7	0	0.5
8	0	0
9	1.9	2.0
10	3.1	3.1
11	0	0
12	3.1	3.1
13	3.1	3.1
14	3.1	3.1
15	3.1	3.1
16	3.1	3.1
17	0	0
18	0	0
19	2.2	2.2
20	2.2	2.2
21	2.2	2.2
22	2.2	2.2
23	0	0
24	2.2	2.2
25	0	0
26	3.1	3.1
27	2.2	2.2
28	2.2	2.2
29	0	0
30	0	0
31	0	0
32	0	0
33	0	0
34	0	0
35	0	0
36	0	0
37	3.1	3.1
38	0	0
39	0	0
40	3.1	3.1
41	3.0	3.1
42	0	0
43	3.0	3.1

MODE PIN NO.	REC	PLAY
44	3.0	3.0
45	1.5	1.5
46	0	0
47	0	0
48	1.5	1.5
IC8302		
1	0.8	0.9
2	0.5	0.5
3	0	0
4	0	0

<SD>

MODE PIN NO.	REC	PLAY
IC8501		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	2.7	2.2
8	2.7	2.2
9	2.5	2.2
10	2.7	2.2
11	2.6	2.2
12	2.6	2.2
13	2.7	2.2
14	2.6	2.2
15	1.3	0
16	0.4	0
17	0.8	0
18	0	0
19	0	0
20	0	0
21	1.4	0
22	1.4	1.4
23	0	0
24	3.1	3.1
25	1.0	1.5
26	1.1	1.5
27	1.0	0
28	1.0	1.4
29	3.1	3.1
30	0	0
31	0	0
32	0	0
33	0	0
34	3.0	0
35	0	0
36	0	0
37	0	0
38	0	0
39	0	0
40	0	0
41	0	0
42	3.1	3.1
43	3.1	3.1
44	0	0
45	3.1	3.1
46	3.1	3.1
47	0	3.1
48	0	3.1

MODE PIN NO.	REC	PLAY
49	3.1	3.1
50	3.1	3.1
51	3.1	3.1
52	0	0
53	3.1	3.1
54	0	0
55	3.1	3.1
56	0	0
57	0	0
58	0	0
59	3.1	3.1
60	3.1	3.1
61	3.1	3.1
62	0.4	0.5
63	0	0
64	0	0
65	3.0	3.0
66	0	0
67	3.0	3.0
68	3.0	3.0
69	3.0	3.0
70	3.1	3.0
71	3.1	3.0
72	0	0
73	0	0
74	0	0
75	0	0
76	0	0

<MDA>

MODE PIN NO.	REC	PLAY
IC1601		
1	0	0
2	1.1	1.1
3	1.1	1.1
4	0	0
5	1.1	1.1
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	4.6	4.6
15	0	0
16	0.4	0.4
17	0	0
18	0.4	0.4
19	0	0
20	0.5	0.5
21	0	0
22	0	0
23	0.8	0.8
24	6.6	6.6
25	1.5	1.5
26	1.5	1.5
27	1.5	1.5
28	1.5	1.5
29	1.5	1.5

MODE PIN NO.	REC	PLAY
30	1.5	1.5
31	1.5	1.5
32	1.5	1.5
33	-	-
34	1.5	1.5
35	3.0	3.0
36	3.0	3.0
37	0.4	0.4
38	0.7	0.7
39	0.7	0.7
40	1.2	1.2
41	1.5	1.5
42	1.5	0.6
43	2.9	2.9
44	0	0
45	0	0
46	0	0
47	2.9	2.9
48	0	0
49	3.0	3.0
50	1.9	1.9
51	0	0
52	1.3	1.3
53	1.0	1.0
54	1.4	0.7
55	0.6	0.6
56	0.7	0.7
57	1.0	1.0
58	0.6	0.6
59	0	0
60	1.0	1.0
61	2.7	2.7
62	1.1	1.1
63	1.5	1.5
64	1.4	1.4
65	1.5	1.5
66	1.4	1.4
67	1.5	1.5
68	0.6	0.6
69	0	0
70	1.1	1.1
71	1.1	1.1
72	1.1	1.1
73	1.1	1.1
74	1.1	1.1
75	0.4	0.4
76	0	0
77	6.7	6.7
78	2.4	2.4
79	0	0
80	0	0
IC1701		
1	-	-
2	1.4	1.4
3	1.4	1.4
4	0	0
5	1.4	1.4
6	1.4	1.4
7	-	-
8	4.6	4.6
IC1702		
1	-	-
2	1.4	1.4

MODE PIN NO.	REC	PLAY
3	-	-
4	0	0
5	-	-
6	1.4	1.4
7	-	-
8	4.6	4.6
Q1601		
1(E)	0	0
2(B)	0	0
3(E)	4.6	4.6
4(C)	0	0
5(C)	4.6	4.6

<PRE/REC>

MODE PIN NO.	REC	PLAY
IC3501		
1	0	0
2	1.1	1.1
3	0	0
4	0.9	1.6
5	2.5	2.5
6	2.2	1.5
7	1.4	0
8	0	0
9	3.7	0
10	1.1	1.1
11	2.9	2.9
12	0	0
13	4.5	4.5
14	0	0
15	0	0
16	0	0
17	0	0
18	3.7	1.6
19	3.7	1.6
20	3.7	1.6
21	3.7	1.6
22	0	0
23	3.7	1.6
24	3.7	1.6
25	3.7	1.6
26	3.7	1.6
27	0	0
28	1.8	1.8
29	3.7	1.7
30	3.7	1.7
31	1.8	1.8
32	0	0
33	0	0
34	0	0
35	1.8	1.8
36	0.5	0.5
37	2.9	2.9
38	0	2.9
39	3.0	3.0
40	1.5	1.5
41	0	2.9
42	2.9	0
43	4.6	4.6
44	2.9	0
45	0	0

MODE PIN NO.	REC	PLAY
46	0	1.8
47	0	1.8
48	4.4	2.9
49	4.1	2.6
50	0.6	1.6
51	1.4	1.4
52	0.8	1.5
53	0	0
54	2.9	2.6
55	2.5	1.9
56	1.1	1.1
57	2.5	1.9
58	2.5	1.3
59	0	0
60	1.2	1.2
61	2.8	1.9
62	2.5	1.9
63	2.5	1.3
64	2.5	1.9
IC3502		
1	0	0
2	0	0
3	0	0
4	0.8	2.8
5	0	0

<JUNCTION>

MODE PIN NO.	REC	PLAY
IC1101		
1	0	2.4
2	2.4	2.4
3	2.4	2.4
4	0	0
5	2.3	2.3
6	2.3	2.3
7	1.9	1.9
8	4.7	4.7
Q1151		
E	0	0
C	1.9	1.9
B	-	-
Q1161		
E	0	0
C	0	0.9
B	3.0	1.9

<REG>

MODE PIN NO.	REC	PLAY
IC6101	-	-
Q6101		
D	3.1	3.1
S	6.6	6.6
G	3.3	3.2
Q6103		
D	1.8	1.8
S	6.6	6.6
G	4.6	4.5
Q6105		
D	0.9	0.9
S	6.6	6.6
G	5.5	5.5
Q6106		
D	2.5	2.5
S	6.6	6.6
G	4.2	4.2
Q6107	-	-
Q6108		
D	-7.5	0
S	-13.1	6.6
G	0	2.7
Q6109		
1(E)	0	0
2(B)	0	0
3(C)	15.1	15.1
4(E)	4.2	4.2
5(B)	4.8	4.7
6(C)	15.7	15.7
Q6110	-	-
Q6111	-	-
Q6113		
1(E)	-7.0	-7.2
2(B)	-7.5	-6.7
3(C)	-15.9	-16.0
4(E)	-7.0	-7.1
5(B)	-7.5	-7.7
6(C)	-12.5	-15.4
Q6114		
E	-13.1	-15.
C	-7.5	-7.7
B	-12.5	-15.4

<JACK>

MODE PIN NO.	REC	PLAY
IC2822		
1	0	0
2	3.1	3.1
3	0	0
4	0	0
5	3.1	3.1
Q2821		
E	0	0
C	0.4	0
B	0	0

<MONITOR>

MODE PIN NO.	EE
IC7301	
1	0
2	2.5
3	1.8
4	0
5	0.4
6	3.0
7	1.6
8	1.1
9	0
10	0
11	0
12	0
13	3.0
14	3.0
15	3.0
16	0.8
17	0.7
18	0
19	3.0
20	3.0
21	1.4
22	1.5
23	0
24	1.6
25	3.0
26	0
27	0
28	0
29	0
30	6.0
31	1.8
32	6.0
33	1.8
34	6.0
35	1.8
36	6.0
37	12.0
38	0
39	6.0
40	0
41	12.0
42	6.0
43	0
44	1.5
45	3.0
46	0
47	0
48	0
49	1.0
50	3.1
51	1.0
52	1.0
53	0
54	0
55	3.1
56	0
57	0
58	0
59	0
60	0
61	0
62	1.5

MODE PIN NO.	EE
63	3.0
64	0
65	0
66	1.5
67	0
68	3.1
69	1.4
70	1.9
71	0
72	1.9
IC7302	
1	2.9
2	0.8
3	3.1
4	0
5	0.7
6	0
7	0
8	3.0
IC7401	
1	0
2	2.5
3	1.7
4	0.4
5	0.4
6	3.0
7	1.4
8	1.2
9	0
10	0
11	0
12	0
13	3.0
14	3.0
15	3.0
16	0.8
17	0.7
18	0
19	3.0
20	3.1
21	1.5
22	1.5
23	0
24	1.6
25	3.0
26	0
27	0
28	0
29	0
30	6.0
31	1.8
32	6.1
33	1.8
34	6.0
35	1.8
36	6.1
37	12.0
38	0
39	0
40	0
41	12.0
42	5.9
43	0

MODE PIN NO.	EE
44	1.5
45	1.5
46	3.0
47	0
48	0
49	1.3
50	1.3
51	0
52	0
53	0
54	0
55	3.0
56	0
57	0
58	0
59	0
60	0
61	1.5
62	1.5
63	3.0
64	0
65	0
66	2.9
67	3.0
68	0
69	0
70	1.9
71	1.9
72	1.9
IC7501	
1	0
2	1.0
3	0
4	0
5	2.5
6	0
7	0
8	0
9	6.6
10	2.2
11	0
12	1.9
13	1.2
14	1.2
15	0
16	0
IC7502	
1	0
2	2.1
3	0
4	0.8
5	3.1
IC7503	
1	3.0
2	0
3	2.5
4	0
5	3.1
Q7301	
E	0
C	0
B	0.6

MODE PIN NO.	EE
Q7302	
E	12.0
C	12.0
B	11.3
Q7303	
E	0
C	0
B	3.0
Q7304	
E	5.5
C	12.0
B	0
Q7305	
E	6.6
C	0
B	6.0
Q7306	
E	6.0
C	12.0
B	6.5
Q7307	
E	6.0
C	0
B	5.5
Q7401	
E	1.1
C	0
B	1.6
Q7501	
1	0
2	3.0
3	0.5
4	6.6
5	0
6	0
Q7502	
D	6.4
S	0
G	0.9
Q7503	
E	0
C	0
B	0
Q7504	
1	1.9
2	0
3	0
4	0
5	1.4
6	0.8

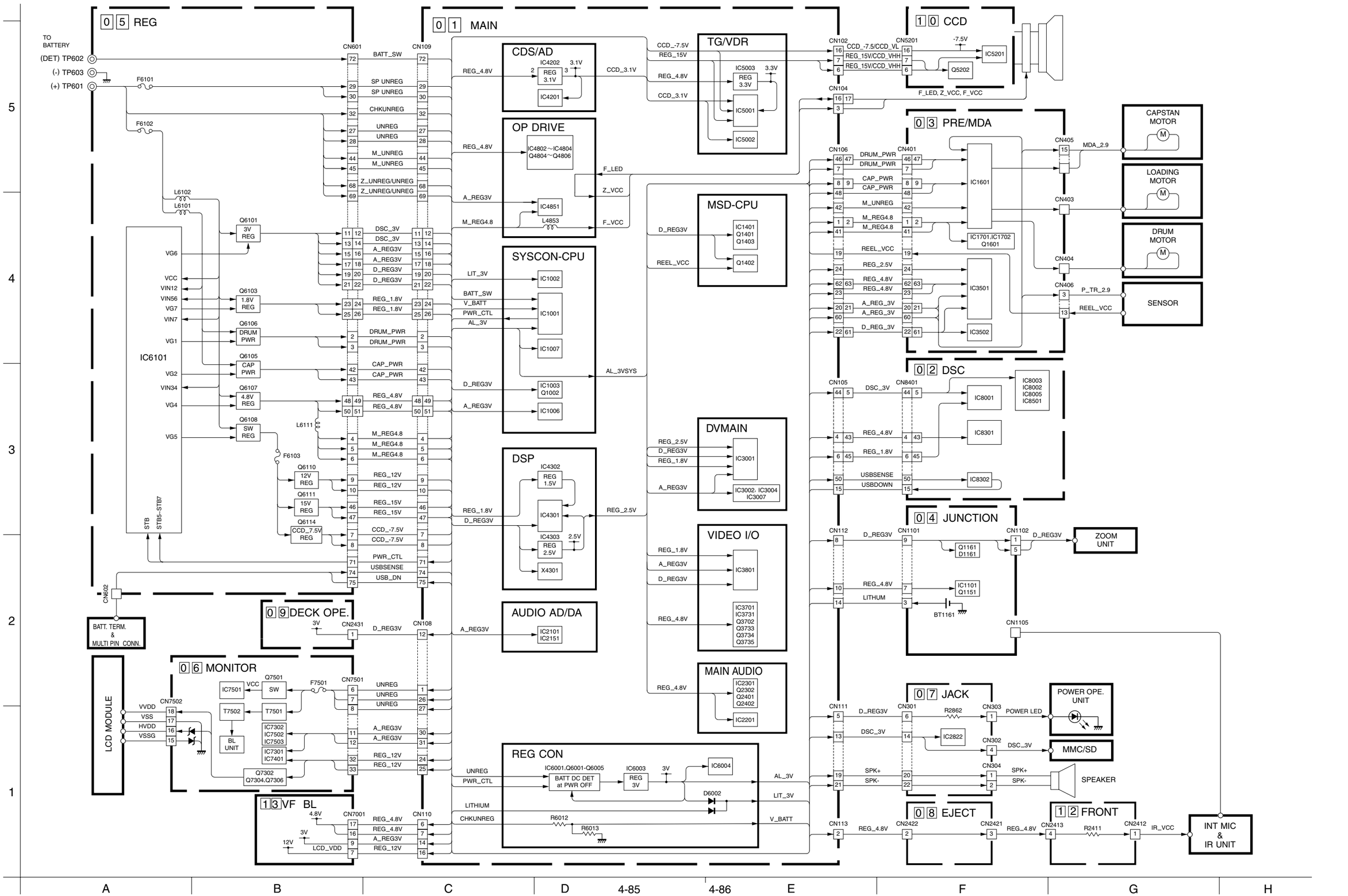
<CCD>

MODE PIN NO.	EE
IC5201	
1	-7.1
2	0
3	0
4	-0.4
5	-7.0
6	-7.0
7	0
8	14.9
9	12.1
10	0
11	13.5
12	1.6
13	1.2
14	0
15	8.6
16	-7.5
Q5201	
E	7.2
C	12.1
B	7.9
Q5202	
E	11.4
C	14.9
B	12.1
Q5203	
E	0
C	9.1
B	0

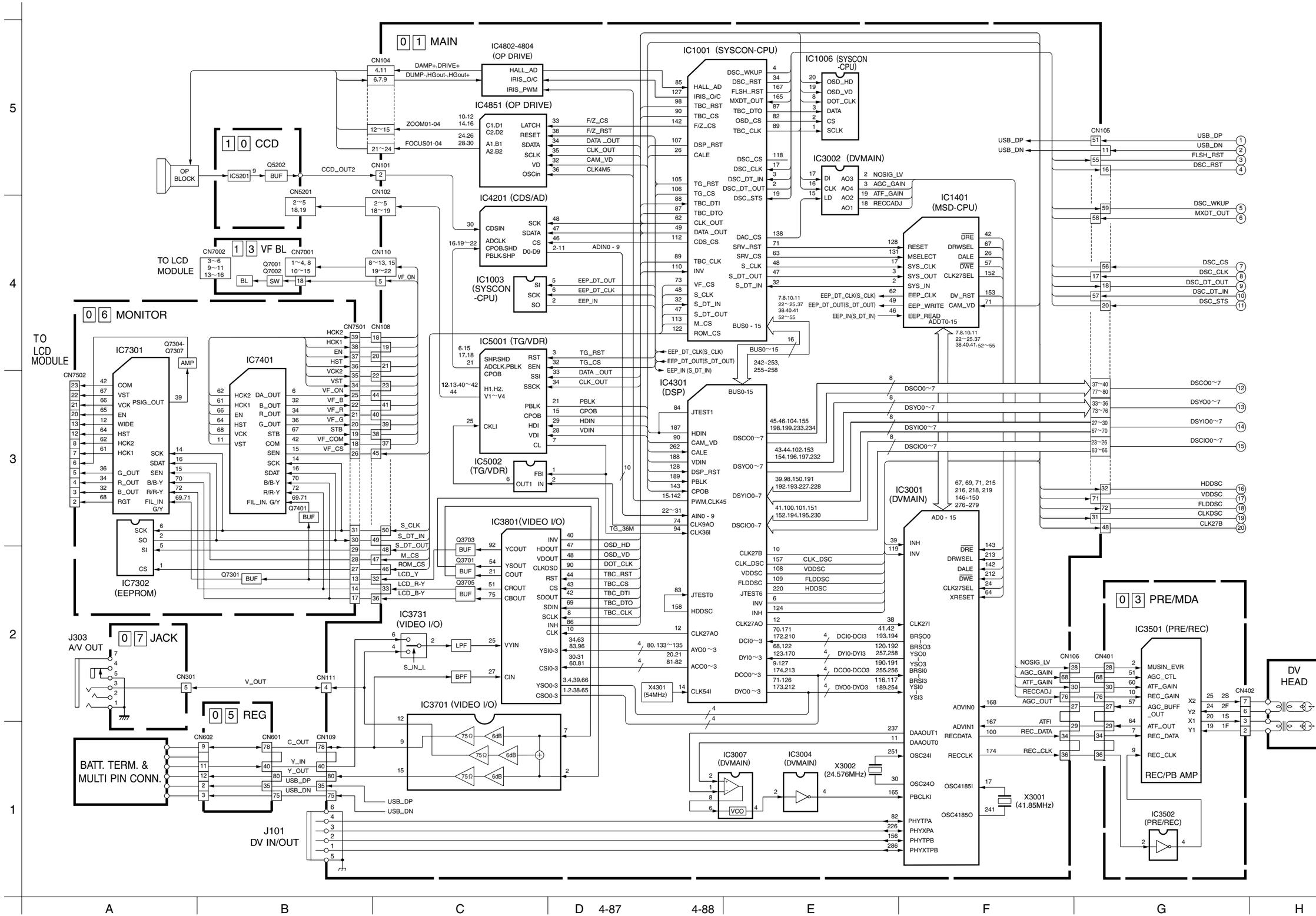
<VF BL>

MODE PIN NO.	EE
Q7001	
1(E)	0
2(B)	3.0
3(C)	4.7
4(E)	4.8
5(B)	0
6(C)	0
Q7002	
1(E)	0.5
2(B)	1.2
3(C)	1.2
4(E)	0.6
5(B)	1.2
6(C)	1.4

4.38 POWER SYSTEM BLOCK DIAGRAM



4.39 VIDEO SYSTEM BLOCK DIAGRAM



0 2 DSC

IC8001 (DSC)

CN8401

USB_DP
USB_DN
FLSH_RST
DSC_RST

DSC_WKUP
MXDT_OUT

DSC_CS
DSC_CLK
DSC_DT_OUT
DSC_DT_IN
DSC_STS

DSCO 0~7
DSYO 0~7
DSYIO 0~7
DSCIO 0~7

HDDSC
VDDSC
FLDDSC
CLKDSC
CLK27B

RESET
GIO0
GIO12
GIO18
SCLK1
SDI1
SDO1
GIO11

ARM_A0~A19
ARM_D0~D15
SDR_A0~10
SDR_A13
SDR_A14
SDR_DQ0~31
SDR_CLK
SDR_CKE
SDR_DQM
SDR_RAS
SDR_CAS
SDR_WE
EM_CS0
EM_WE
EM_OE
EM_CS2
GIO6
GIO17
GIO4
EM_CS1

IC8002 (DSC)
A0~A10
BA0, BA1
(2M x 32bit SDRAM)
DQ0~DQ31
CLK
CKE
DQM0~3
RAS
CAS
WE

IC8003 (DSC)
DQ0 ~ DQ15
A0 ~ A19
RESET
(512k x 16bit MEMORY)
FLSH_CE
FLSH_WE
FLSH_OE

IC8501 (SD)
XMNRE
XMNWE
MCLK
XRST
XMNCS
MD0~MD15
MA1~MA7
SD0DAT0~SD0DAT3
SD0WP
SD0CMD
SD0CD
SD0CLK

IC8301 (USB)
D+
D-
RESET
AD. DATA1 ~ DATA15
A0
WR
RD
CS
INT

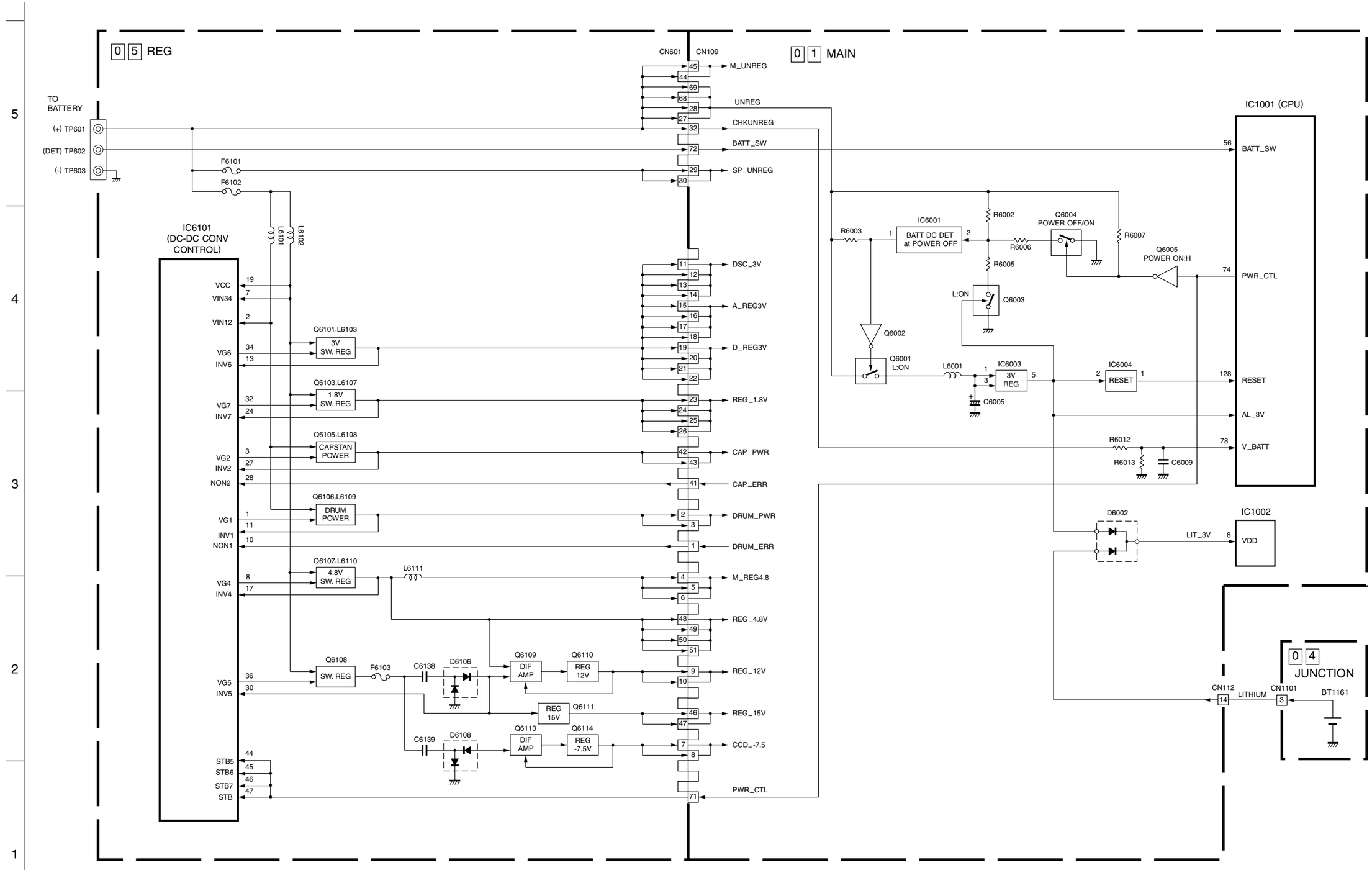
IC8005 (DSC)
FS1
XIN
512

GIO5
SCLK2
SDO2
GIO19
TXD1
RXD1

0 7 JACK

CN8402
CN301
CN302
SDCLK
SD0DATA0
SD0CMD
SD0DAT3
SD0DAT1
SD0DAT2
SD0CD
SD0WP
MMC/SD

J301
PRINTER
D2825

IC2822

4.40 REGULATOR SYSTEM BLOCK DIAGRAM